



**PEDIATRIC QUALITY INDICATORS (PDI),
LOG OF ICD-9-CM, ICD-10-CM/PCS, AND
DRG CODING UPDATES AND REVISIONS TO
PDI DOCUMENTATION AND SOFTWARE
Through Version v2018 ICD10-CM/PCS (Non-Risk
Adjusted)**

Prepared for:

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1.0 Log of ICD-09 CM, ICD-10-CM/PC, and MS-DRG Coding Updates and Revisions to PDI Specifications Documentation and Software

The following table summarizes the revisions made to the Pediatric Quality Indicators (PDI) software, software documentation and the technical specification documents in the v2018 ICD-10-CM/PCS version. It also reflects changes to indicator specifications based on updates to ICD-10-CM/PCS codes through Fiscal Year 2018 (effective October 1, 2017) and incorporates coding updates that were implemented in both versions of the PDI software (SAS and WinQI).

The table lists the version and revision number, the date the revision was made, the component(s) affected by the change and a short summary of the changes that were made. The nature of the change is categorized as:

- 1) **Fiscal year (FY) coding change:** occurs because of changes to the most recent fiscal year codes dictated by the Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS) and Centers for Medicare & Medicaid Services (CMS).
- 2) **Specification/ Calculation change:** may impact the measure result that is something other than the most recent fiscal year coding change.
- 3) **Software/documentation change:** alteration to the software code to calculate the measure as specified, or to the documentation to clarify the measure intent or functionality.

For convenience and ease of use, the changes are listed in reverse chronological order with the most recent changes appearing first in the table. Please note that changes prior to version 4.4 are not classified according to the currently defined types of changes.

All changes noted below have been incorporated into the software programming code, software documentation and the PDI technical specifications. With this software update, the PDI software now incorporates ICD-9-CM, ICD-10 CM/PC, and DRG/MS-DRG codes valid from October 1, 1994 through September 30, 2018.

The transition from ICD-9-CM to ICD-10-CM/PCS represents substantial differences across the two code sets. Specifications have been carefully reviewed to achieve as much consistency as possible; however, differences are expected to exist between the ICD-9-CM v5.0, the previous version of the AHRQ QI measures, and the ICD-10-CM/PCS releases - v6.0, v7.0, and v2018. A detailed explanation of the process of conversion is detailed in http://www.qualityindicators.ahrq.gov/Downloads/Resources/Publications/2013/C.14.10.D001_REVISED.pdf

Note: the change log for v6.0 (ICD-10) reflects the changes from v5.0 alpha version of ICD-10 software and not the changes from v5.0 ICD-9-CM version.

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 01, PDI 05	Fiscal Year Coding	<p>Description: Added ICD10-PCS codes to the existing denominator exclusion for cardiac procedure (CARDSIP).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 01, PDI 05	Fiscal Year Coding	<p>Description: Added ICD10-PCS codes to the existing denominator exclusion for Thoracic surgery (THORAIP).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 01, PDI 05	Specification/ Calculations	<p>Description: Removed ICD10-PCS codes from the existing denominator exclusion for Thoracic surgery (THORAIP).</p> <p>Rationale for the change: Esophageal procedures unlikely to cause non-preventable pneumothorax (i.e., perforation of the esophagus is a preventable complication).</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 01, PDI 05	Specification/ Calculations	<p>Description: Removed ICD10-PCS codes from the existing denominator exclusion for Thoracic surgery (THORAIP)</p> <p>Rationale for the change: Insertions of devices by this approach into the tracheobronchial tree are very low risk, not included in this specification.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 01, PDI 05	Specification/ Calculations	<p>Description: Removed ICD10-PCS code Introduction of Other Gas into Peritoneal Cavity, Percutaneous Approach (3E0M3SF) from the existing denominator exclusion for Thoracic surgery (THORAIP).</p> <p>Rationale for the change: Unlikely to result in non-preventable pneumothorax.</p>

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v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 01, PDI 05	Specification/ Calculations	<p>Description: Moved all ICD10-PCS codes from the existing denominator exclusion for Lung or pleural biopsy (LUNGBIP) to Thoracic surgery (THORAIP).</p> <p>Rationale for the change: Codes moved from LUNGBIP to THORAIP due to redundancy.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 01, PDI 05	Specification/ Calculations	<p>Description: Moved all ICD10-PCS codes from the existing denominator exclusion for Diaphragmatic surgery repair (DIAPHRP) to Thoracic surgery (THORAIP).</p> <p>Rationale for the change: Codes moved from DIAPHRP to THORAIP due to redundancy.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 02	Specification/ Calculations	<p>Description: Measure NQI 02, Neonatal Mortality rate, is being suppressed in SAS and WinQI.</p> <p>Rationale for the change: Measure is being suppressed due in part to discrepancies in how states define a live birth. CA and several other states, for example, do not have the qualifying language distinguishing a heartbeat from transient cardiac contractions, and distinguishing respirations from fleeting respiratory efforts or gasps. In some cases, induced terminations of pregnancy are misclassified as live births because there were “transient cardiac contractions” and “fleeting respiratory efforts or gasps.” In addition, NQI 02 does not offer a true neonatal mortality rate, because there is no linkage of records for patients who are transferred from one hospital to another, or from a hospital to another setting of care.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 03, PDI 09	Fiscal Year Coding	<p>Description: Added ICD10-PCS codes to the existing denominator inclusion for OR Procedures (ORPROC).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	NQI 03, PDI 09	Specification/ Calculations	<p>Description: Removed ICD10-PCS codes from the existing denominator inclusion for OR Procedures (ORPROC).</p> <p>Rationale for the change:</p>

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				Clinical Specification: No longer OR procedure per CMS.
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 01	Fiscal Year Coding	<p>Description: Added ICD10-PCS codes to the existing denominator exclusion for Spine surgery (SPINEP).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 01	Specification/ Calculations	<p>Description: Removed ICD10-PCS codes Extirpation of Matter from Epidural Space, Open Approach (00C30ZZ), Extirpation of Matter from Epidural Space, Percutaneous Approach (00C33ZZ) and Extirpation of Matter from Epidural Space, Percutaneous Endoscopic Approach (00C34ZZ) from the existing denominator exclusion for Spine surgery (SPINEP).</p> <p>Rationale for the change: Revised description (now specifies 'intracranial') no longer applies to spine.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 02	Fiscal Year Coding	<p>Description: Added ICD10-CM codes for Hypoxic ischemic encephalopathy [HIE], unspecified, P9160, Moderate hypoxic ischemic encephalopathy [HIE], P9162, Severe hypoxic ischemic encephalopathy [HIE], P9163, to existing denominator for inclusion for Hypoxic ischemic encephalopathy [HIE], unspecified (ANOXBD); tech correction moved from HEMIPID.</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 08	Fiscal Year Coding	<p>Description: Added ICD10-PCS codes to the existing denominator inclusion for post-operative hemorrhage or Miscellaneous hemorrhage hematoma-related procedure (HEMOTH2P).</p> <p>Rationale for the change: Annual coding update.</p>

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v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 08	Specification/ Calculations	<p>Description: Removed ICD-10 PCS codes Drainage of Pericardial Cavity, Percutaneous Approach, Diagnostic (0W9D3ZX) and Drainage of Pericardial Cavity, Percutaneous Endoscopic Approach, Diagnostic (0W9D4ZX) from the existing denominator inclusion for post-operative hemorrhage or Miscellaneous hemorrhage hematoma-related procedure (HEMOTH2P).</p> <p>Rationale for the change: Diagnostic procedures unrelated to hemorrhage/hematoma.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 08	Specification/ Calculations	<p>Description: Removed ICD-10 PCS codes 0VBF0ZZ,0VBF3ZZ,0VBF4ZZ,0VBG0ZZ,0VBG3ZZ,0VBG4ZZ,0VBH0ZZ,0VBH3ZZ,0VBH4ZZ from the existing denominator inclusion for post-operative hemorrhage or Miscellaneous hemorrhage hematoma-related procedure (HEMOTH2P).</p> <p>Rationale for the change: Excision of closely related structures (e.g., prostate, scrotum, testes, epididymis) not included in specification.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 08	Specification/ Calculations	<p>Description: Removed ICD-10 PCS codes Destruction of Right Inner Ear, Open Approach (095D0ZZ) and Destruction of Left Inner Ear, Open Approach (095E0ZZ) from the existing denominator inclusion for post-operative hemorrhage or Miscellaneous hemorrhage hematoma-related procedure (HEMOTH2P).</p> <p>Rationale for the change: Inner ear unlikely location for postoperative hemorrhage requiring destruction.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 08	Specification/ Calculations	<p>Description: Removed ICD-10 PCS codes 099D00Z, 099D0ZZ, 099E00Z, 099E0ZZ from the existing denominator inclusion for post-operative hemorrhage or Miscellaneous hemorrhage hematoma-related procedure (HEMOTH2P).</p> <p>Rationale for the change: Inner ear unlikely location for postoperative hemorrhage requiring drainage.</p>

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v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 08	Specification/ Calculations	<p>Description: Removed ICD-10 PCS codes Extirpation of Matter from Right Inner Ear, Open Approach (09CD0ZZ) and Extirpation of Matter from Left Inner Ear, Open Approach (09CE0ZZ) from the existing denominator inclusion for post-operative hemorrhage or Miscellaneous hemorrhage hematoma-related procedure (HEMOTH2P).</p> <p>Rationale for the change: Inner ear unlikely location for postoperative hemorrhage requiring extirpation.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 09	Fiscal Year Coding	<p>Description: Added ICD10-CM codes for Juvenile dermatomyositis with respiratory involvement, M3301, Other dermatomyositis with respiratory involvement, M3311, Polymyositis with respiratory involvement M3321, Dermatopolymyositis, unspecified with respiratory involvement M3391 to the existing denominator exclusion for Neuromuscular disorders (NEUROMD); Replaces ICD-10 CM Codes M3302, 3312, 3322,3392 due to Clinical Specification: Myopathy WITH respiratory involvement is essential for this exclusion.</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 09	Fiscal Year Coding	<p>Description: Added ICD10-PCS codes to the existing denominator exclusion for craniofacial anomalies (NUCRANP).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 09	Specification/ Calculations	<p>Description: Removed ICD10-PCS codes from the existing denominator exclusion for craniofacial anomalies (NUCRANP).</p> <p>Rationale for the change: Corresponding codes for insertion of monitoring, infusion, or intraluminal devices into tracheobronchial tree not included in specification.</p>

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v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 09	Specification/ Calculations	<p>Description: Removed ICD10-PCS codes 0DQ50ZZ, 0DQ53ZZ, 0DQ54ZZ, 0DQ57ZZ, 0DQ58ZZ from the existing denominator exclusion for craniofacial anomalies (NUCRANP).</p> <p>Rationale for the change: Esophageal procedures usually do not compromise the airway.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 10	Fiscal Year Coding	<p>Description: Added ICD10-CM codes for Enterocolitis due to clostridium difficile, not specified as recurrent, A0472, Other dermatomyositis with respiratory involvement, M3311, to existing denominator for exclusion (INFECID).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 11	Fiscal Year Coding	<p>Description: Added ICD10-PCS codes to the existing denominator inclusion for abdominopelvic surgery, open approach (ABDOMIPOPEN).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 11	Specification/ Calculations	<p>Description: Removed ICD10-PCS codes 0DB10ZX,0DB20ZX,0DT10ZZ,0DT20ZZ from the existing denominator inclusion for abdominopelvic surgery, open approach (ABDOMIPOPEN).</p> <p>Rationale for the change: Esophageal procedures involving upper/middle esophagus unlikely to be approached through the abdomen.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 11	Fiscal Year Coding	<p>Description: Added ICD10-PCS codes to the existing denominator inclusion for abdominopelvic surgery, other than open approach(ABDOMIPOTHER).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 11	Specification/ Calculations	<p>Description: Removed ICD10-PCS codes 0DB13ZX, 0DB14ZX, 0DB14ZZ, 0DB23ZX, 0DB24ZX, 0DB24ZZ, 0DT14ZZ, 0DT24ZZ, 0DW630Z, 0DW632Z, 0DW633Z, 0DW637Z, 0DW63CZ, 0DW63DZ from the existing denominator inclusion for abdominopelvic surgery, other than</p>

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				open approach(ABDOMIPOTHER). Rationale for the change: Esophageal procedures involving upper/middle esophagus unlikely to be approached through the abdomen.
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 11	Specification/ Calculations	Description: Removed ICD10-PCS codes 0DH632Z, 0DH633Z, 0DH63DZ, 0DH63MZ, 0DH63UZ from the existing denominator inclusion for abdominopelvic surgery, other than open approach(ABDOMIPOTHER). Rationale for the change: Other esophageal insertion procedures not included in specification, not approached through abdomen.
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 11	Specification/ Calculations	Description: Removed ICD10-PCS codes 0DP630Z, 0DP632Z, 0DP633Z, 0DP637Z, 0DP63CZ, 0DP63DZ from the existing denominator inclusion for abdominopelvic surgery, other than open approach(ABDOMIPOTHER). Rationale for the change: Other esophageal removal procedures not included in specification, not approached through abdomen.
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 11	Fiscal Year Coding	Description: Added ICD10-PCS codes 0KRK07Z, 0KRK0JZ, 0KRK0KZ, 0KRK47Z, 0KRK4JZ, 0KRK4KZ, 0KRL07Z, 0KRL0JZ, 0KRL0KZ, 0KRL47Z, 0KRL4JZ, 0KRL4KZ to the existing denominator inclusion for Reclosure procedure (RECLOIP). Rationale for the change: Annual coding update.
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 11, PDI 12, PDI 18	Specification/ Calculations	Description: Added ICD10-CM codes for Dermatopolymyositis, unspecified without myopathy, M3393, Juvenile dermatomyositis without myopathy, M3303, Other dermatomyositis without myopathy, M3313, to existing denominator for exclusion (IMMUITD). Rationale for the change: Annual coding update.

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v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 12	Fiscal Year Coding	<p>Description: Added ICD10-CM codes for Aggressive systemic mastocytosis, C9621, Malignant mast cell neoplasm, unspecified, C9620, Malignant mast cell neoplasm, unspecified, C9620, Malignant mast cell neoplasm, unspecified, C9620, to existing denominator for inclusion (CANITD).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 15	Fiscal Year Coding	<p>Description: Added ICD10-CM codes for Acute myocardial infarction, unspecified, E11.10, E11.11, to existing denominator for inclusion for Type 2 diabetes mellitus with ketoacidosis without coma and with coma (ACDIASD).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 16	Fiscal Year Coding	<p>Description: Added ICD10-CM codes for Myocardial infarction type 2, A04.71, A04.72, to existing denominator for exclusion for Enterocolitis due to clostridium difficile, recurrent and non-recurrent (ACBACGD).</p> <p>Rationale for the change: Annual coding update.</p>
v2018 (ICD-10) for SAS QI & WinQI	April 2018	PDI 18	Specification/ Calculation	<p>Description: Removed ICD10-CM code N119, chronic tubulo-interstitial nephritis, unspecified, from the list of urinary tract infection diagnosis codes (ACSUTID) in the numerator.</p> <p>Rationale for the change: The numerator specification for acute urinary tract infections (ACSUTID) identifies discharges that should be treated in an ambulatory setting and should exclude chronic conditions. The diagnosis is included in the numerator exclusion for any-listed ICD-10-CM diagnosis codes for kidney/urinary tract disorder (KIDNEY).</p>
v7.0 (ICD-10) for SAS QI & WinQI	September 2017	NQI 01	Specification/ Calculations	<p>Description: The following codes were removed from THORAIP in ICD-10: 0JH604Z Insertion of Pacemaker, Single Chamber into Chest Subcutaneous Tissue and Fascia, Open Approach 0JH634Z Insertion of Pacemaker, Single Chamber into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach</p>

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>0JH804Z Insertion of Pacemaker, Single Chamber into Abdomen Subcutaneous Tissue and Fascia, Open Approach 0JH834Z Insertion of Pacemaker, Single Chamber into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach</p> <p>Rationale for the change: These codes were left in the logic of PDI 05/NQI 01 due to a GEM mapping error and should be removed because they do not put patients at an increased risk of an iatrogenic pneumothorax, unlike diaphragmatic pacemaker insertion procedures that may involve entering the pleural space.</p>
v7.0 (ICD-10)	July 2017	NQI 03	Specification/Calculations	<p>Description: Respecified numerator to require an organism code only for diagnoses without an organism integrated into the code.</p> <p>Rationale for the change: P36 codes (except P36.8) have an organism integrated into the code, and do not allow for a separate organism code. The former definition would miss a majority of neonatal sepsis cases.</p>
v7.0 (ICD-10)	July 2017	NQI 03	Specification/Calculations	<p>Description: Removed redundant exclusion for sepsis.</p> <p>Rationale for the change: All codes are included in a separate exclusion for sepsis for ICD-10. (BSI4DX).</p>
v7.0 (ICD-10)	July 2017	NQI 03	Specification/Calculations	<p>Description: Reduce the length of stay exclusion from < 7 days to < 3 days.</p> <p>Rationale for the change: This change harmonizes with The Joint Commission measure of neonatal sepsis.</p>
v7.0 (ICD-10)	July 2017	PDI 01	Specification/Calculations	<p>Description: Updated codes for spine procedures for existing denominator exclusion.</p> <p>Rationale for the change: Annual coding update.</p>

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
v7.0 (ICD-10)	July 2017	PDI 02	Specification/Calculation	<p>Description: An exclusion for severe burns ($\geq 20\%$ body surface area) was added to the denominator for the ICD-10 version of PDI02.</p> <p>Rationale for the change: Patients with severe burns are at an increased risk for skin breakdown and already receive intensive skin care as a result of their burn-related injury. Despite best efforts, progression to stage III or IV pressure ulcers may be largely unpreventable, which is inconsistent with the intent of PDI02 to capture preventable hospital-acquired pressure ulcers.</p>
v7.0 (ICD-10)	July 2017	PDI 02	Specification/Calculation	<p>Description: PDI 02 denominator exclusions were removed for the following procedures and conditions in ICD-10: pedicle graft procedures, and major skin disorders. Exclusions for patients admitted from acute hospitals or SNFs/ICFs were also removed in the ICD-10 version of PDI 02.</p> <p>Rationale for the change: Before POA reporting was required, these conditions and procedures potentially associated with pressure ulcers were assumed to indicate that the pressure injury was POA. Therefore, exclusions for these conditions and procedures served as a means of removing events that might not be attributable to hospitals. However, now that POA status is required, these exclusions are redundant and lead to undercounting of hospital-acquired pressure ulcers.</p>

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v7.0 (ICD-10)	July 2017	PDI 05	Specification/Calculation	<p>Description: The following codes were removed from THORAIP in ICD-10: 0JH604Z Insertion of Pacemaker, Single Chamber into Chest Subcutaneous Tissue and Fascia, Open Approach 0JH634Z Insertion of Pacemaker, Single Chamber into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach 0JH804Z Insertion of Pacemaker, Single Chamber into Abdomen Subcutaneous Tissue and Fascia, Open Approach 0JH834Z Insertion of Pacemaker, Single Chamber into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach.</p> <p>Rationale for the change: These codes were left in the logic of PDI 05 due to a GEM mapping error and should be removed because they do not put patients at an increased risk of an iatrogenic pneumothorax, unlike diaphragmatic pacemaker insertion procedures that may involve entering the pleural space.</p>
v7.0 (ICD-10)	July 2017	PDI 08	Specification/Calculation	<p>Description: Antineoplastic chemotherapy induced pancytopenia and other disorders impacting coagulation were added to the definition of platelet disorders for the purpose of excluding patients in the ICD-10 version of PDI 08.</p> <p>Rationale for the change: As an antiplatelet disorder, patients with antineoplastic chemotherapy induced pancytopenia have a higher risk for a PDI 08 event and should consequently be excluded from the measure. Other disorders can decrease coagulation.</p>
v7.0 (ICD-10)	July 2017	PDI 08	Specification/Calculation	<p>Description: Updated procedure codes for control of hemorrhage or drainage of hematoma</p> <p>Rationale for the change: Annual coding update.</p>
v7.0 (ICD-10)	July 2017	PDI 08	Specification/Calculation	<p>Description: Updated codes to capture postprocedural hemorrhage and hematoma</p> <p>Rationale for the change: Annual coding update.</p>

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v7.0 (ICD-10)	July 2017	PDI 09	Specification/Calculation	<p>Description: Revise the list of procedures performed to correct craniofacial anomalies that would involve an inherent risk of airway compromise (addressed by prolonged intubation to protect the airway).</p> <p>Rationale for the change: More specific procedure codes in ICD-10-PCS permit a more tailored denominator exclusion based on the procedures that involve airway compromise requiring extended intubation.</p>
v7.0 (ICD-10)	July 2017	PDI 09	Specification/Calculation	<p>Description: Removed exclusion for gastrectomy.</p> <p>Rationale for the change: Patients with gastrectomy are not at higher risk for respiratory failure</p>
v7.0 (ICD-10)	July 2017	PDI 09	Specification/Calculation	<p>Description: Removed logic that required cranial procedures to be accompanied by a craniofacial anomaly dx code.</p> <p>Rationale for the change: Craniofacial anomalies place patients at high risk for extended intubation regardless of the procedure performed.</p>
V7.0 (ICD-10)	July 2017	PDI 10	Specification/Calculation	<p>Description: Updated codes for infection in existing denominator exclusion.</p> <p>Rationale for the change: Annual coding update</p>
V7.0 (ICD-10)	July 2017	PDI 10	Specification/Calculation	<p>Description: Removed software code assigning cases to Risk category 5</p> <p>Rationale for the change: Patients in DRGs in surgical class 4 are not eligible for this measure.</p>
V7.0 (ICD-10)	July 2017	PDI 11	Specification/Calculation	<p>Description: Added large number of additional abdominopelvic procedure codes to the denominator of PDI11.</p> <p>Rationale for the change: Codes were unintentionally omitted from Version 6.0.</p>

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V7.0 (ICD-10)	July 2017	PDI 11	Specification/Calculation	<p>Description: Updated codes for transplant procedures in existing denominator exclusion.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 11	Specification/Calculation	<p>Description: Updated codes for denominator specification of abdominal procedures</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 11	Specification/Calculation	<p>Description: Updated codes for immunocompromised diagnoses in existing denominator exclusion.</p> <p>Rationale for the change: Annual coding update</p>
V7.0 (ICD-10)	July 2017	PDI 11	Specification/Calculation	<p>Description: Updated codes for immunocompromised diagnoses in existing denominator exclusion.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 11	Specification/Calculation	<p>Description: Applied stratification of denominator by open vs. laparoscopic (including all non-open approaches). This resulted in the setname for abdominopelvic procedures (ABDOMI14P) split into two setnames (ABDOMIPOPEN and ABDOMIPOTHER)</p> <p>Rationale for the change: Laparoscopic procedures have lower risk of dehiscence</p>
V7.0 (ICD-10)	July 2017	PDI 12	Specification/Calculation	<p>Description: Updated codes for transplant procedures in existing stratification criterion.</p> <p>Rationale for the change: Annual coding update.</p>

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V7.0 (ICD-10)	July 2017	PDI 12	Specification/Calculation	<p>Description: Updated codes for immunocompromised diagnoses in existing stratification criterion.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 12	Specification/Calculation	<p>Description: Updated codes for immunocompromised diagnoses in existing stratification criterion.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 12	Specification/Calculation	<p>Description: Updated codes for cancer in existing stratification criterion.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 14	Specification/Calculation	<p>Description: Updated diagnosis codes for cystic fibrosis and anomalies of respiratory system diagnoses.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 15	Specification/Calculation	<p>Description: Removed codes E10.65 and E11.65 from numerator.</p> <p>Rationale for the change: Changes in coding clinic rulings has clarified that Type II diabetes with ketoacidosis can be coded with just one diagnosis code. Codes E10.65 and E11.65 now more likely represent non-DKA admissions classifiable to PQI 14 (adults only).</p>
V7.0 (ICD-10)	July 2017	PDI 16	Specification/Calculation	<p>Description: Updated diagnosis code for gastroenteritis</p> <p>Rationale for the change: Annual coding update.</p>

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V7.0 (ICD-10)	July 2017	PDI 16	Specification/Calculation	<p>Description: Updated diagnosis code for gastrointestinal disorders</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 18	Specification/Calculation	<p>Description: Updated codes for transplant procedures in existing denominator exclusion.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 18	Specification/Calculation	<p>Description: Updated codes for immunocompromised diagnoses in existing denominator exclusion.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 18	Specification/Calculation	<p>Description: Updated codes for immunocompromised diagnoses in existing denominator exclusion.</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	PDI 11	Specification/Calculations	<p>Description: Revised logic for exclusion of abdominopelvic procedures that occur prior to reclosures.</p> <p>Rationale for the change: Logic incorrectly included cases with a third abdominopelvic procedure (index, reclosure and a third procedure). This has been fixed.</p>
V7.0 (ICD-10)	July 2017	PDI 11	Specification/Calculation	<p>Description: Update diagnosis codes for kidney or urinary tract disorder diagnosis codes.</p> <p>Rationale for the change: Annual coding update.</p>

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V7.0 (ICD-10)	July 2017	PDI	Specification/Calculation	<p>Description: Update ORPROC</p> <p>Rationale for the change: Annual coding update.</p>
V7.0 (ICD-10)	July 2017	All modules	Specification/Calculation	<p>Description: Remove risk adjustment variables and associated code.</p> <p>Rationale for the change: Risk adjustment variables and associated code were removed from all modules, as risk adjustment is not presently available in the ICD10 v7.00 software.</p>
V7.0 (ICD-10)	July 2017	All modules	Specification/Calculations	<p>Description: Changed structure for one MDRGs: acute myocardial infarction.</p> <p>Rationale for the change: Root MS-DRGs are structured by mortality and as mortality may be related to the numerator event, this MS-DRGs was combined with the corresponding MS-DRG for patients discharged alive.</p>
V6.0.2 (ICD-9)	August 2017	All PDI, PQI 09, and PSI 17 module programs	Software /Documentation	<p>Description: Update all program names and internal libref and macros</p> <p>Rationale for the change: Software cleanup</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Corrected reference population to include 34 states (previous estimates mistakenly based on 33 states). Risk adjustment models were recreated, and updated coefficients, signal variance, and reference arrays were included in the revised software</p> <p>Rationale for the change: One state mistakenly omitted from the reference population.</p>

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V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Algorithm added to assign MDC based on principal diagnosis to align with CMS regulation.</p> <p>Rationale for the change: CMS requires MDC to be assigned based on principal diagnosis rather than MS-DRG assignment. Doing so will assign MDCs for discharges assigned to "Pre-MDC" MS-DRGs.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Modified code in PROV_RISKADJ to prevent the SUMWGT warning from being triggered.</p> <p>Rationale for the change: The warning was inconsequential but may be confusing to users.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Removed formats that are no longer used in the PDI algorithms or risk adjustment.</p> <p>Rationale for the change: Software code clean-up.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Implemented PDI 06 risk model described in Jenkins et al. 2016. Development and Validation of an Agency for Healthcare Research and Quality Indicator for Mortality After Congenital Heart Surgery Harmonized With Risk Adjustment for Congenital Heart Surgery (RACHS-1) Methodology. J Am Heart Assoc. 5(5).</p> <p>Rationale for the change: This risk model resulted from harmonization across organizations.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated risk model with variable selection and coefficients.</p> <p>Rationale for the change: Revision of the risk models with updates to the risk model variables and systematic model builds.</p>

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V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: MDRG length increased from 3 to 4 bytes</p> <p>Rationale for the change: Fixed error that resulted in truncation of some MDRGs.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated signal variance and population rate arrays</p> <p>Rationale for the change: Annual update.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Changed structure for two MDRGs: acute myocardial infarction and neonates died or transferred.</p> <p>Rationale for the change: Root MS-DRGs are structured by mortality and as mortality may be related to the numerator event, these MS-DRGs were combined with the corresponding MS-DRG for patients discharged alive.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated age and age and sex variables, removed interaction effects from provider level variables.</p> <p>Rationale for the change: Updates better reflect clinical risk factors related to age and gender.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated candidate MDRG variables in risk model, removed specific variables potentially related to the outcomes of interest.</p> <p>Rationale for the change: MDRGs may be related to the outcome and should not be adjusted for.</p>

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V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Add external composite weights file</p> <p>Rationale for the change: This change was added to improve production processes.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Rename SEXCAT covariates.</p> <p>Rationale for the change: Sex covariate renamed from SEXCAT to GENDER_CAT to avoid namespace collision with the strata class variable SĒXCAT.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Update POVCAAT format used for Area Risk Adjustment</p> <p>Rationale for the change: Update POVCAAT using census ACS data 5 year estimate using definition in STATA file. Implement in software and provide documentation of variable. Document/notate development program used to update POVCAAT</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Update ORPROC list to exclude "0094", "0110", "0116", "0117", "5013"</p> <p>Rationale for the change: Remove codes for procedures that are no longer designated as major OR procedures in ORPROC.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Update ORPROC list to add "1481", "1482", "1483"</p> <p>Rationale for the change: Add codes inadvertently omitted from ORPROC.</p>

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V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Removed formats that are no longer used in the PDI algorithms or risk adjustment.</p> <p>Rationale for the change: Software code clean-up.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Revise exclusion for craniofacial anomalies and head procedures in PDI 09 to exclude any procedures from expanded list of head and neck procedures or any diagnosis of craniofacial anomalies.</p> <p>Rationale for the change: Modified exclusion criteria simplify the exclusions.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Removed gastric resection procedures as an exclusion for PDI 09.</p> <p>Rationale for the change: Gastric exclusions usually do not result in excess risk.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Fix error that triggers exclusion of patients with umbilical hernia repair only when procedure day is missing.</p> <p>Rationale for the change: Software fix.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Update risk variables and coefficients</p> <p>Rationale for the change: Annual update</p>

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V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Added new comorbidity risk categories for obesity (moved into separate variable), ventilator dependence, adverse neonatal conditions.</p> <p>Rationale for the change: Clinically significant comorbidity categories added or separated from other comorbidities categories.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Added an alternative definition of transfer-in for newborns.</p> <p>Rationale for the change: Newborn admissions receive different point of origin codes than non-newborn admissions.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated indicator names in program comments.</p> <p>Rationale for the change: Software cleanup.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated macros and POVCAT in PQI 09 standalone program.</p> <p>Rationale for the change: Annual update</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated macros and POVCAT in PSI 17 standalone program.</p> <p>Rationale for the change: Annual update.</p>

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V6.0.2 (ICD-9)	August 2017	PDI 08	Software /Documentation	<p>Description: Removed exclusion of records from denominator with hip fracture repair as the first or only OR procedure. With the inclusion of "present on admission" criteria it is no longer necessary to focus on surgical patients to avoid false positives.</p> <p>Rationale for the change: Date of hip fracture repair is empirically not associated with reported POA status.</p>
V6.0.2 (ICD-9)	August 2017	PDI 02	Software /Documentation	<p>Description: Changed exclusion for length of stay from less than 5 days to less than 3 days.</p> <p>Rationale for the change: Source of false negatives and long length of stay potentially redundant with "present on admission".</p>
V6.0.2 (ICD-9)	August 2017	PDI 05	Software /Documentation	<p>Description: Restricted the chest trauma exclusion to rib fractures, traumatic pneumothorax and related chest wall injuries that are associated with "difficult-to-detect" or nascent pneumothorax.</p> <p>Rationale for the change: Not all chest traumas are associated with pneumothoraxes.</p>
V6.0.2 (ICD-9)	August 2017	PDI 09	Software /Documentation	<p>Description: Expanded exclusion for acute posttraumatic or postoperative respiratory failure present on admission to include other etiologies of acute respiratory failure.</p> <p>Rationale for the change: Other etiologies of respiratory failure require exclusion.</p>

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V6.0.2 (ICD-9)	August 2017	PDI 10	Software /Documentation	<p>Description: Removed exclusion for length of stay less than 4 days.</p> <p>Rationale for the change: Exclusion less necessary due to present on admission data.</p>
V6.0.2 (ICD-9)	August 2017	PDI 11	Software /Documentation	<p>Description: Added exclusion for diagnosis of "disruption of internal operation wound" that is present on admission to denominator.</p> <p>Rationale for the change: Implementing standard exclusion</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Added 46.97 to the definition of immunocompromised state procedures (Added \$IMMUNIP, exists in \$TRANSPP). IMMUNE flag added to PDI.</p> <p>Rationale for the change: Unintentionally omitted in previous versions.</p>
V6.0.2 (ICD-9)	August 2017	PDI 09	Software /Documentation	<p>Description: Changed name of PRESOPP set name for PDI to PRESOPP_PDI</p> <p>Rationale for the change: Distinguish from IQI PRESOPP format.</p>
V6.0.2 (ICD-9)	August 2017	PDI 02	Software /Documentation	<p>Description: Removed MDC 09 exclusion. Added new exclusion for any diagnosis code POA using new formats, PUXD; EXFOLIATXD, which includes all codes listed on tabs "#272 PU EXCL" and "#272 EXFOLIATION BSA" in specifications.</p> <p>Rationale for the change: Removed MDC 09 exclusion. Added focused exclusion for major skin disorders that are associated with higher risk of pressure ulcer.</p>

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V6.0.2 (ICD-9)	August 2017	PDI 09	Software /Documentation	<p>Description: Added exclusion of hospitalizations with any procedure code for lung transplantation. New format, LUNGTRANSP, per tab "294 Lung Transplant" in specifications.</p> <p>Rationale for the change: Added exclusion of hospitalizations involving lung transplantation.</p>
V6.0.2 (ICD-9)	August 2017	PDI 02	Software /Documentation	<p>Description: Modified logic to also include cases with 2 or more qualifying codes in format DECUBVD, when at least one of those are not POA.</p> <p>Rationale for the change: Modified logic to also include cases with 2 or more qualifying pressure ulcers, when at least one of the ulcers are not POA.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated MS-DRG list to account for FY2016 changes.</p> <p>Rationale for the change: Annual update.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated MS-DRG list to account for FY2016 changes.</p> <p>Rationale for the change: Annual update.</p>
V6.0.2 (ICD-9)	August 2017	PDI All	Software /Documentation	<p>Description: Updated MS-DRG list to account for FY2016 changes.</p> <p>Rationale for the change: Annual update.</p>

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V6.0.2 (ICD-9)	August 2017	PDI 08	Software /Documentation	<p>Description: Aligned definitions of hemorrhage and hematoma procedures within PDI 08.</p> <p>Rationale for the change: Previous versions had multiple, largely overlapping lists of hemorrhage control procedures.</p>

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
v6.0 (ICD-10)	July 2016	PDI All	Software /Documentation	<p>Description: Length of the MDRG variable increased from 3 to 4 bytes to allow for additional value.</p> <p>Rationale for the change: The current software assigned a length=3 for the MDRG variable, which limited values to 3 bytes, or integers with a maximum value of 8,192. The peculiar consequence is that 8898 and 8899 were lumped together.</p>
v6.0 (ICD-10)	July 2016	PDI All	Software /Documentation	<p>Description: Changed number of MDRG "Other" from 8898 to 9999</p> <p>Rationale for the change: Cleans up MDRG list</p>
v6.0 (ICD-10)	July 2016	PDI All	Software /Documentation	<p>Description: Updated MS-DRG list to account for FY2016 changes.</p> <p>Rationale for the change: Update DRG lists for FY 16 changes</p>

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v6.0 (ICD-10)	July 2016	PDI All	Software /Documentation	<p>Description: Updated OR procedure list to account for FY2016 changes.</p> <p>Rationale for the change: Updated OR procedure list to account for FY2016 changes.</p>
v6.0 (ICD-10)	July 2016	PDI All	Software /Documentation	<p>Description: Remove former DRG classification from software, include only MS-DRG in software.</p> <p>Rationale for the change: The DRG classification system has been replaced, and the inclusion of both the DRG and MS-DRG classification system is confusing to users.</p>
v6.0 (ICD-10)	July 2016	PDI 02	Specification/Calculation	<p>Description: Changed exclusion for length of stay from less than 5 days to less than 3 days. Source of false negatives and long length of stay potentially redundant with "present on admission".</p> <p>Rationale for the change: This exclusion is >87% POA-enhanced, and thus appears largely redundant with POA reporting</p>
v6.0 (ICD-10)	July 2016	PDI 02	Specification/Calculation	<p>Description: Removed MDC 09 exclusion. Added focused exclusion for major skin disorders that are associated with higher risk of pressure ulcer.</p> <p>Rationale for the change: Some skin disorders put patients at greater risk for skin breakdown (e.g. Epidermolysis Bullosa). These types of skin disorders could lead to greater rates of decubitus ulcers and secondary complications in this patient group. Redundant with POA reporting</p>

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
v6.0 (ICD-10)	July 2016	PDI 05	Specification/Calculation	<p>Description: Restricted the chest trauma exclusion to rib fractures, traumatic pneumothorax and related chest wall injuries that are associated with "difficult-to-detect" or nascent pneumothorax.</p> <p>Rationale for the change: Chest trauma, in general, shows no evidence of POA enhancement (i.e., 14% POA), so the exclusion does not appear to have its intended effect.</p>
v6.0 (ICD-10)	July 2016	PDI 02, 08, 09, 10, NQI 03	Specification/Calculation	<p>Description: Revised OR Procedure list to remove known instances where procedures are not typically performed in an operating room. These changes result in the AHRQ QI OR procedure list not being aligned with the CMS OR Procedure list.</p> <p>Rationale for the change: CMS OR procedure list contains some common procedures that are not typically performed in the OR, and as a result these cases are incorrectly pushed into a surgical PSI denominator.</p>
v6.0 (ICD-10)	July 2016	PDI 08	Specification/Calculation	<p>Description: Removed selected procedures that have weak connections with diagnosis or treatment of perioperative hemorrhage or hematoma from the numerator inclusion list. This was a source of false positives.</p> <p>Rationale for the change: Source of false positives, because users are reporting cases in which the triggering procedure is unrelated to perioperative hemorrhage or hematoma, and therefore cannot be used as a severity marker.</p>
v6.0 (ICD-10)	July 2016	PDI 09	Specification/Calculation	<p>Description: Expanded exclusion for acute postraumatic or postoperative respiratory failure present on admission to include other etiologies of acute respiratory failure.</p> <p>Rationale for the change: ARF of any cause POA obviates the usefulness of postoperative ARF as a quality indicator; users report some false positives for this reason.</p>

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v6.0 (ICD-10)	July 2016	PDI 09	Specification/Calculation	<p>Description: Added exclusion of hospitalizations involving lung transplantation.</p> <p>Rationale for the change: We are seeing where cystic fibrosis patients having both bilateral lung transplant along with liver transplant are qualifying for PSI-11- Perioperative Respiratory Failure when the payor is Blue Cross/Blue Shield since it goes to an APR-DRG and not an MS-DRG. Specifically, the principal diagnosis for the hospitalization in question plays an important role in MS-DRG assignment, which affects which MDC applies. In general, it would not be appropriate to exclude all hospitalizations involving a diagnosis of cystic fibrosis because we would not want to assume that all (or most) cases of postoperative respiratory failure in this subpopulation are non-preventable. However, exclusion of hospitalizations involving lung transplantation (33.5x) seems reasonable and appropriate.</p>
v6.0 (ICD-10)	July 2016	PDI 10	Specification/Calculation	<p>Description: Removed exclusion for length of stay less than 4 days. Exclusion less necessary due to present on admission data.</p> <p>Rationale for the change: Consistency with PSI 13; stratification appears to enhance the apparent benefit of LOS exclusion in identifying events that were actually POA (i.e., 62% vs 21% POA among non-elective clean operations, which are excluded from PSI 13)</p>
v6.0 (ICD-10)	July 2016	PDI 11	Specification/Calculation	<p>Description: Added exclusion for diagnosis of "disruption of internal operation wound" that is present on admission to denominator.</p> <p>Rationale for the change: Would presumably reduce FPs due to operative repair a dehiscent wound from a prior operation (but no validation evidence)</p>

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V5.0	March 2015	Neonatal Iatrogenic Pneumothorax Rate (NQI 02)	Specification/Calculation	The exclusion for polycystic kidney disease was corrected from autosomal dominant (753.13) to autosomal recessive (753.14).
V5.0	March 2015	Accidental Puncture or Laceration Rate (PDI 01)	Specification/Calculation	E-codes (E870.x) were removed from the numerator and denominator.
V5.0	March 2015	Accidental Puncture or Laceration Rate (PDI 01)	Specification/Calculation	The code for insertion of recombinant BMP (84.52) was removed from the denominator exclusion for spine surgery.
V5.0	March 2015	Pressure Ulcer Rate (PDI 02)	Specification/Calculation	Records with any secondary diagnosis of pressure ulcer present on admission and any secondary diagnosis of pressure ulcer stage III or IV or unstageable present on admission were dropped from the denominator exclusion definition.
V5.0	March 2015	Retained Surgical Item or Unretrieved Device Fragment Count (PDI 03)	Specification/Calculation	E-codes (E870.x) were removed from the numerator and denominator.
V5.0	March 2015	Perioperative Hemorrhage or Hematoma Rate (PDI 08)	Specification/Calculation	Setnames HEMATIP, HEMORIP and HEMOTHP were consolidated into one set for “Control of perioperative hemorrhage and evacuation of hematoma”. The procedure code for endovascular embolization or occlusion of vessel(s) of the head or neck using bioactive coils (39.76) and the codes for uterine art embolization with or without coils (68.24, 68.25) were added to the denominator code set for the Perioperative Hemorrhage or Hematoma Rate measure.
V5.0	March 2015	Perioperative Hemorrhage or Hematoma Rate (PDI 08)	Specification/Calculation	Setnames POHMAID and POHMRID were consolidated into one set for “Perioperative Hemorrhage or Hematoma” (998.11, 998.12).
V5.0	March 2015	Perioperative Hemorrhage or Hematoma Rate (PDI 08)	Specification/Calculation	The denominator exclusion for coagulopathy (COAGDID, 286.0-286.4, 286.52, 286.59, 286.6, 286.7, 286.9) was removed in favor of the existing stratification approach.

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V5.0	March 2015	Postoperative Respiratory Failure Rate (PDI 09)	Specification/Calculation	The code for temporary tracheostomy (31.1) was added to the definition of tracheostomy.
V5.0	March 2015	Postoperative Respiratory Failure Rate (PDI 09)	Specification/Calculation	The denominator exclusion for Gingivoplasty (24.2) was removed. A denominator exclusion for facial bone operations (76.31, 76.39, 76.41-76.45, 76.61-76.64, 76.7x, 76.92-76.99). was added. A denominator exclusion for laryngo-tracheal operations (31.0, 31.61-31.64, 31.71-31.72, 31.91-31.95) was added. Setnames for laryngeal, pharyngeal, facial, and nose/mouth procedures were consolidated.
V5.0	March 2015	Postoperative Respiratory Failure Rate (PDI 09)	Specification/Calculation	The code for senility (old age) without psychosis (797) was removed from the denominator exclusion for “degenerative neurological disorder”.
V5.0	March 2015	Postoperative Respiratory Failure Rate (PDI 09)	Specification/Calculation	The denominator exclusion for lung cancer surgery was expanded to include thoracoscopic surgery (32.30, 32.41, 32.50).
V5.0	March 2015	Postoperative Respiratory Failure Rate (PDI 09)	Specification/Calculation	The denominator exclusion for esophageal surgery was expanded to include esophagostomy (42.10, 42.11, 42.12, 42.19).
V5.0	March 2015	Postoperative Sepsis Rate (PDI 10)	Specification/Calculation	The code for postoperative shock N.O.S. (998.00) was removed from the numerator and denominator definitions for Postoperative Sepsis Rate.
V5.0	March 2015	Postoperative Wound Dehiscence Rate (PDI 11)	Specification/Calculation	The code for transplant of intestine (46.97) was added to the denominator exclusion for transplant procedures.
V5.0	March 2015	Central Venous Catheter-Related Blood Stream Infection Rate (PDI 12)	Specification/Calculation	The code for transplant of intestine (46.97) was added to the denominator stratification for “high-risk” transplant procedures.
V5.0	March 2015	Transfusion Reaction Count (PDI 13)	Specification/Calculation	The code for mismatched blood transfusion (E8760) was removed from the numerator and denominator definitions for Transfusion Reaction

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VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				Count.
V5.0	March 2015	Gastroenteritis Admission Rate (PDI 16)	Specification/Calculation	The diagnosis code for amebic nondysenteric infection (006.2) was removed from the denominator exclusion for "bacterial gastroenteritis".
V5.0	March 2015	PDSASA3	Specification/Calculation	Age/Sex risk-adjustment models were updated with the 2012 reference population file; the code was revised to use new regression coefficients.
V5.0	March 2015	PDSASP3	Specification/Calculation	Risk adjustment models were updated using the 2012 reference population file; The code was revised to use new regression coefficients.
V5.0	March 2015	PDSAS1	Specification/Calculation	The macro code that uses POA values to identify conditions present on admission was revised to only use POA as indicated on the input file. The user must indicate if the input file includes POA data.
V5.0	March 2015	PDSASP2	Specification/Calculation	The code for T flags for the POA to SAS1 program was adjusted.
V5.0	March 2015	PDI Composite	Specification/Calculation	Weights for the measures that make up the Composite measure were updated using the 2012 reference population.
V5.0	March 2015	All PDI	Specification/Calculation	The reference population was updated based on 2012 HCUP SIDS data.
V5.0	March 2015	All PDI	Specification/Calculation	The population file was updated with US Census County estimates for 2014.
V4.5a	July 2014	PDI 06	Specification/Calculation	A software bug was fixed that will once again allow reporting of the expected, risk adjusted and smoothed rates for PDI 06.

AHRQ Quality Indicators™

Pediatric Quality Indicators (PDI), Log of ICD-10-CM/procedure and DRG Coding Updates and Revisions to PDI Documentation and Software

V4. 5a	July 2014	PDI 06	Specification/Calculation	Numerator exclusion based on patent ductus arteriosus (PDA) and any-listed ICD-9-CM procedure codes for catheterization without any-listed ICD-9-CM procedure codes for extracorporeal circulation is changed so that the definition of PDA can include atrial septal defect or ventricular septal defect
V4. 5a	July 2014	PDI 07	Specification/Calculation	Numerator exclusion based on patent ductus arteriosus (PDA) and any-listed ICD-9-CM procedure codes for catheterization without any-listed ICD-9-CM procedure codes for extracorporeal circulation is changed so that the definition of PDA can include atrial septal defect or ventricular septal defect
V4. 5a	July 2014	PDI 09	Specification/Calculation	A bug in the PDFMY.SAS program was fixed that could affect the calculations for PDI 09
V4. 5a	July 2014	All PDIs	Software (WinQI, V4.6)	A denominator adjustment added to SAS for Version 4.4 has been added to WinQI. This applies to the census population counts when certain combinations of strata are zero.
V4.5a	July 2014	All PDIs	Software (SAS, V4.5a)	To improve the output of results in a better format, the PROC MEANS statement was modified.

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.5	May 2013	All area PDI	Specification/Calculation	Updated data are used for population estimates (i.e., through 2013). The population data are used to calculate the denominator for the area-level QI.
V4.5	May 2013	All PDI	Specification/Calculation	Updated reference population rates were calculated using 44 state files from the 2010 State Inpatient Databases (SID). New risk adjustment coefficients were calculated using the updated reference population.
V4.5	May 2013	Neonatal Blood Stream Infection Rate (NQI 3)	Specification/Calculation	<ol style="list-style-type: none"> 1. Add numerator inclusion codes for any secondary diagnosis of methicillin resistant staphylococcus aureus septicemia to Criteria #1: 03812 METH RES STAPH AUR SEPT 2. Drop numerator inclusion code for secondary diagnosis of (non-neonatal) bacteremia from Criteria #2: 7907 BACTEREMIA 3. Add numerator inclusion codes for secondary diagnosis of methicillin resistant staphylococcus aureus and Escherichia coli infection to Criteria #3: 04112 MTH RES STAPH AUR 04141 SHIGA TOXIN-PROD E. COLI 04142 SPEC SHIGA TOXIN-PROD E. COLI OTH 04143 SHIGA TOXIN-PROD E. COLI UNS 04149 SHIGA TOXIN-PROD E. COLI OTH/UNS 4. Drop denominator inclusion for transfers into an acute care facility (DISP=2) 5. Add denominator inclusion for transfers from another healthcare facility within two days of birth 6. Add denominator exclusion codes for selected principal diagnosis of sepsis or bacteremia or secondary diagnosis present on admission of sepsis or bacteremia: 04104 ENTEROCOCCUS GROUP D 04110 STAPHYLOCOCCUS UNSPCFIED 04111 MTH SUS STPH AUR ELS/NOS 04112 MTH RES STAPH AUR

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>04119 OTHER STAPHYLOCOCCUS 0413 KLEBSIELLA PNEUMONIAE 0414 E. COLI INFECT NOS 04141 SHIGA TOXIN-PROD E. COLI 04142 SPEC SHIGA TOXIN-PROD E. COLI OTH 04143 SHIGA TOXIN-PROD E. COLI UNS 04149 SHIGA TOXIN-PROD E. COLI OTH/UNS 0417 PSEUDOMONAS INFECT NOS 04185 OTH GRAM NEGATV BACTERIA 1125 DISSEMINATED CANDIDIASIS 77181 SEPTICEMIA OF NEWBORN 77183 BACT OF NEWBORN</p> <p>7. Add denominator exclusion codes for principal diagnosis (or secondary diagnosis present on admission only for those cases qualifying for the numerator) for sepsis or bacteremia: 1125 DISSEMINATED CANDIDIASIS 77181 SEPTICEMIA OF NEWBORN 77183 BACT OF NEWBORN 7907 BACTEREMIA</p> <p>8. Drop denominator exclusion codes for principal diagnosis of infection or secondary diagnosis present on admission: PDI Appendix H – Infection Diagnosis Codes</p> <p>9. Drop denominator exclusion for length of stay less than 2 days</p> <p>10. Add denominator exclusion for length of stay less than 7 days</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.5	May 2013	Postoperative Hemorrhage or Hematoma Rate (PDI 8)	Specification/Calculation	<p>1. Add denominator exclusion codes for any diagnosis code of coagulation disorder:</p> <ul style="list-style-type: none"> 2860 CONG FACTOR VIII DISORDER 2861 CONG FACTOR IX DISORDER 2862 CONG FACTOR XI DISORDER 2863 CONG DEF CLOT FACTOR NEC 2864 VON WILLEBRAND'S DISEASE 28652 ACQUIRED HEMOPHILIA 28659 OT HEM D/T CIRC ANTICOAG 2866 DEFIBRINATION SYNDROME 2867 ACQ COAGUL FACTOR DEF 2869 COAGUL DEFECT NEC NOS <p>2. Add numerator inclusion codes for miscellaneous hemorrhage or hematoma-related procedures: Codes listed in Appendix C</p>
V4.5	May 2013	All mortality PDI and Postoperative Wound Dehiscence Rate (PDI 11)	Specification/Calculation	<p>Modify the parameters in the analysis module for measures that are never present on admission (this is, where P=0 for all cases) by increasing the estimated precision threshold, i.e., modify the precision parameter in the analysis module to less than 1×10^9. This change only affected the software. The user will not see the change in parameters as they are embedded in the regression intercept and coefficients that are used by the prediction module.</p> <p>Rationale: Effect will be to change the reference population rate used for shrinkage to be closer to empirically estimated reference population rate given P=0.</p>
V4.5	May 2013	All PDI	Software/Documentation	<p>Respiratory complications diagnosis codes – Corrections were made to assure that three specific diagnosis codes were present in both the SAS and WinQI software. This change only affected the software.</p>

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.5	May 2013	All PDI	Software/Documentation	In WinQI there was an error in the smoothed rate calculation involving the noise variance and signal variance. This error was not previously observed because it only became significant in particular cases with relatively unusual variances. This issue was fixed in WinQI Version 4.5.
V4.5	May 2013	All PDI	Software/Documentation	The variable DISCWT in SAS QI v4.5 was set equal to 1 and the variable DISCWT was removed from the KEEP statement associated with the inputfile. This change ensures that the SAS programs do not account for complex sampling design when calculating QI estimates and standard errors. The SAS QI software, beginning with Version 4.1, does not support weighted QI estimates or standard errors for weighted estimates. The WinQI software has never supported weighted QI estimates or standard errors for weighted estimates.
V4.5	May 2013	All PDI	Software/Documentation	The definitions of Newborn and Outborn were revised in WinQI to better align them with SAS. The differences affected cases where discharge records have some combinations of missing values for one or more of the required data fields (e.g., Age, Age in Days).
V4.5	May 2013	All PDI	Software/Documentation	The installation packages have been improved for Version 4.5 of the SAS and WinQI software, including the Prediction Module and 3M™ APR DRG software. Both the SAS and WinQI software are available in Version 4.5 as either 32-bit or 64-bit applications. The 32-bit applications are targeted for Windows XP operating systems, and the 64-bit applications are targeted for Windows 7 operating systems.

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.5	May 2013	All PDI	Software/Documentation	<p>The WinQI software was corrected to address the following issues:</p> <ol style="list-style-type: none"> 1. On Step 2 of the Sampling Wizard dialog, the Sample Data File text box was not working correctly. Users were not able to save the file specified using the Browse explorer function. This issue has been fixed in WinQI Version 4.5. 2. Denominators were not being adjusted (i.e., dividing by the number of discharge quarters) when the calculations were being stratified by quarter. This issue has been fixed in WinQI Version 4.5. 3. On the WinQI Additional Options for Data Analysis screen of the Report Wizard, if the “<i>Ref. Pop. Rate</i>” is deselected, and then the expected rate and O/E ratio are reported incorrectly. These rates should be disabled on this screen if “<i>Ref. Pop. Rate</i>” is not selected. This issue has been included in the software documentation. 4. The compiled C# program was named AHRQ.exe, and this was the same name used for the compiled Prediction Module C++ program. This potential conflict has been fixed in WinQI Version 4.5. 5. Excel files with an .xlsx extension were not recognized. MS Access file types also needed to be updated. These issues were fixed in WinQI Version 4.5.
V4.5	May 2013	Neonatal Blood Stream Infection Rate (NQI 3)	Software/Documentation	<ol style="list-style-type: none"> 1. WinQI was mistakenly including the operating room procedure code 640 which only applies to adults. And, SAS was not consistently excluding this code for all pediatric indicators and cases. This issue was fixed in SAS and WinQI Version 4.5. This change only affected the software. 2. WinQI was mistakenly allowing some adult discharges to be included in the QI calculations in cases where the discharge record presents contradictory information about patient age and admission type. Specifically, software testing found that some adult discharge records include Newborn admission type. WinQI was fixed to make sure these adult cases are properly excluded from any pediatric indicator calculations.

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.5	May 2013	Volume of Foreign Body Left during Procedure (PDI 3)	Software/Documentation	Rename indicator to “Retained Surgical Item or Unretrieved Device Fragment Count.” This change only affected the documentation. Rationalee: NQF measure refinements agreed upon with the Surgery Endorsement Maintenance 2010 Steering Committee
V4.5	May 2013	Iatrogenic Pneumothorax Rate (PDI 5)	Software/Documentation	1. Add denominator exclusion codes for any cardiac procedure: 3597 PERC MTRL VLV REPR W IMP 3737 EXC/DEST HRT LES, THRSPC This change only affected the documentation.
V4.5	May 2013	Pediatric Heart Surgery Mortality Rate (PDI 6)	Software/Documentation	Rename indicator to “RACHS-1 Pediatric Heart Surgery Mortality Rate.” This change only affected the documentation. Rationalee: NQF measure refinements agreed upon with the Surgery Endorsement Maintenance 2010 Steering Committee
V4.5	May 2013	Pediatric Heart Surgery Volume (PDI 7)	Software/Documentation	Rename indicator to “RACHS-1 Pediatric Heart Surgery Volume.” This change only affected the documentation. Rationalee: NQF measure refinements agreed upon with the Surgery Endorsement Maintenance 2010 Steering Committee

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.5	May 2013	Postoperative Hemorrhage or Hematoma Rate (PDI 8)	Software/Documentation	<p>1. Rename indicator to “Perioperative Hemorrhage or Hematoma Rate.” This change only affected the documentation.</p> <p>Rationale: Cases identified included adverse events that occur both peri- and post-operatively</p> <p>2. For the denominator exclusion criterion that excludes cases where the procedure of interest occurs before the first operating room procedure, explicitly say that a secondary diagnosis for postoperative hemorrhage or postoperative hematoma must also be present in the discharge record for the record to be excluded. This change only affected the documentation.</p> <p>3. WinQI was mistakenly including the operating room procedure code 640 which only applies to adults. And, SAS was not consistently excluding this code for all pediatric indicators and cases. This issue was fixed in SAS and WinQI Version 4.5. This change only affected the software.</p>
V4.5	May 2013	Postoperative Respiratory Failure Rate (PDI 9)	Software/Documentation	<p>1. Added the following codes to Neuromuscular disorder diagnosis codes: 35921 MYOTONIC MUSCULAR DYSTROPHY 35929 OTHER MYOTONIC DISORDER This change affected both the software and documentation.</p> <p>2. Added the following code to Esophageal resection procedure codes in the technical specification (as it should have been included): 4399 TOTAL GASTRECTOMY NEC This change only affected the documentation.</p>
V4.5	May 2013	Transfusion Reaction Volume (PDI 13)	Software/Documentation	Rename indicator to “Transfusion Reaction Count.” This change only affected the documentation.
V4.5	May 2013	Urinary Tract Infection Admission Rate (PDI 18)	Software/Documentation	<p>Add numerator exclusion codes for any diagnosis of kidney/urinary tract disorder: 59000 CHR PYELONEPHRITIS NOS 59001 CHR PYELONEPH W MED NECR This change only affected the documentation.</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	All Area PDI	Specification/Calculation	Updated data are used for population estimates (i.e., through 2012). The population data are used to calculate the denominator for the area-level QI. The comparative data tables have been updated using Version 4.4 of the software. Because the risk adjustment models and reference population have not changed for Version 4.4, the Risk Adjustment Coefficients remain as they were in Version 4.3.
V4.4	March 2012	Accidental Puncture or Laceration Rate (PDI 1)	FY Coding Change	Add denominator inclusion for surgical MS-DRGs (PDI Appendix C) Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Pressure Ulcer Rate (PDI 2)	FY Coding Change	<p>1. Add/remove denominator inclusion for operating room procedure codes (PDI Appendix A)</p> <p>Add code: 0221 INSERT/REPLACE EVD 0222 INTRCRAN VENT SHUNT/ANAS 1267 INSERT AQUEOUS DRAIN DEV 1753 PERC ATHER EXTRACRAN VSL 1754 PERC ATHER INTRACRAN VSL 1755 TRANSLUM COR ATHERECTOMY 1756 ATHER OTH NON-VOR VESSEL 3500 CLOSED VALVOTOMY NOS 3505 ENDOVAS REPL AORTC VALVE 3506 TRNSAPCL REP AORTC VALVE 3507 ENDOVAS REPL PULM VALVE 3508 TRNSAPCL REPL PULM VALVE 3509 ENDOVAS REPL UNS HRT VLV 3826 INSRT PRSR SNSR W/O LEAD 3977 TEMP ENDOVSC OCCLS VESSL 3978 ENDOVAS IMPLN GRFT AORTA 4382 LAP VERTICAL GASTRECTOMY 6824 UTERINE ART EMB W COILS 6825 UTERINE ART EMB W/O COIL</p> <p>Remove code: 0058 INS INTRA-ANSM PRES MNTR 0059 INTRAVASC MSMNT COR ART 0067 INTRAVAS MSMNT THORC ART 0068 INTRAVAS MSMT PERIPH ART 0069 INTRAVS MSMT VES NEC/NOS</p>

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				2. Add denominator inclusion for surgical MS-DRGs (PDI Appendix C) Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC
V4.4	March 2012	Volume of Foreign Body Left During Procedure (PDI 3)	FY Coding Change	Add denominator inclusion for surgical MS-DRGs (PDI Appendix C) Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC
V4.4	March 2012	Iatrogenic Pneumothorax Rate (PDI 5)	FY Coding Change	1. Add denominator exclusions for cardiac procedure Add code: 3506 TRNSAPCL REP AORTIC VALVE 3508 TRNSAPCL REPL PULM VALVE 2. Add denominator inclusion for surgical MS-DRGs (PDI Appendix C) Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Pediatric Heart Surgery Mortality Rate (PDI 6)	FY Coding Change	<p>1. Add denominator inclusions for procedures to repair congenital heart defect</p> <p>Add code: 3500 CLOSED VALVOTOMY NOS 3505 ENDOVAS REPL AORTC VALVE 3506 TRNSAPCL REP AORTC VALVE 3507 ENDOVAS REPL PULM VALVE 3508 TRNSAPCL REPL PULM VALVE</p> <p>2. Add denominator inclusions for diagnosis of congenital heartdisease</p> <p>Add code: 74731 PULMON ART COARCT/ATRES 74732 PULMONARY AV MALFORMATN 74739 OTH ANOM PUL ARTERY/CIRC</p>
V4.4	March 2012	Pediatric Heart Surgery Volume (PDI 7)	FY Coding Change	<p>1. Add numerator inclusions for procedures to repair congenital heart defect</p> <p>Add code: 3500 CLOSED VALVOTOMY NOS 3505 ENDOVAS REPL AORTC VALVE 3506 TRNSAPCL REP AORTC VALVE 3507 ENDOVAS REPL PULM VALVE 3508 TRNSAPCL REPL PULM VALVE</p> <p>2. Add numerator inclusion for diagnosis of congenital heartdisease</p> <p>Add code: 74731 PULMON ART COARCT/ATRES 74732 PULMONARY AV MALFORMATN 74739 OTH ANOM PUL ARTERY/CIRC</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Postoperative Hemorrhage or Hematoma Rate (PDI 8)	FY Coding Change	<p>1. Add stratification high risk inclusion codes for coagulopathies to highrisk group</p> <p>Add code: 28652 ACQUIRED HEMOPHILIA 28653 ANTIPHOSPHOLIPID W HEMOR 28659 OT HEM D/T CIRC ANTICOAG</p> <p>2. Add/remove denominator inclusion for operating room procedure codes (PDI Appendix A)</p> <p>Add code: 0221 INSERT/REPLACE EVD 0222 INTRCRAN VENT SHUNT/ANAS 1267 INSERT AQUEOUS DRAIN DEV 1753 PERC ATHER EXTRACRAN VSL 1754 PERC ATHER INTRACRAN VSL 1755 TRANSLUM COR ATHERECTOMY 1756 ATHER OTH NON-VOR VESSEL 3500 CLOSED VALVOTOMY NOS 3505 ENDOVAS REPL AORTC VALVE 3506 TRNSAPCL REP AORTC VALVE 3507 ENDOVAS REPL PULM VALVE 3508 TRNSAPCL REPL PULM VALVE 3509 ENDOVAS REPL UNS HRT VLV 3826 INSRT PRSR SNSR W/O LEAD 3977 TEMP ENDOVSC OCCLS VESSL 3978 ENDOVAS IMPLN GRFT AORTA 4382 LAP VERTICAL GASTRECTOMY 6824 UTERINE ART EMB W COILS 6825 UTERINE ART EMB W/O COIL</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>Remove code: 0058 INS INTRA-ANSM PRES MNTR 0059 INTRAVASC MSMNT COR ART 0067 INTRAVAS MSMNT THORC ART 0068 INTRAVAS MSMT PERIPH ART 0069 INTRAVS MSMT VES NEC/NOS</p> <p>3. Add denominator inclusion for surgical MS-DRGs (PDI Appendix C)</p> <p>Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Postoperative Respiratory Failure Rate (PDI 9)	FY Coding Change	<p>1. Add numerator inclusions for diagnosis of acute respiratory failure</p> <p>Add code: 51851 AC RESP FLR FOL TRMA/SRG 51853 AC/CHR RSP FLR FOL TR/SG</p> <p>2. Remove numerator inclusions for diagnosis of acute respiratory failure</p> <p>Remove code: 51881 ACUTE RESPIRATORY FAILURE 51884 ACUTE & CHRONC RESP FAIL</p> <p>3. Add denominator exclusions for diagnosis of degenerative neurological disorder</p> <p>Add code: 31081 PSEUDOBULBAR AFFECT 31089 NONPSYCH MN TL DISORD NEC 3316 CORTICOBASAL DEGENERATION 34882 BRAIN DEATH</p> <p>4. Add denominator exclusions for diagnosis of neuromuscular disorders</p> <p>Add code: 35830 LAMBERT-EATON SYND NOS 35831 LAMBERT-EATON SYND NEOPL 35839 LAMBERT-EATON SYN OT DIS</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>5. Add/remove denominator inclusion for operating room procedure codes (PDI Appendix A)</p> <p>Add code: 0221 INSERT/REPLACE EVD 0222 INTRCRAN VENT SHUNT/ANAS 1267 INSERT AQUEOUS DRAIN DEV 1753 PERC ATHER EXTRACRAN VSL 1754 PERC ATHER INTRACRAN VSL 1755 TRANSLUM COR ATHERECTOMY 1756 ATHER OTH NON-VOR VESSEL 3500 CLOSED VALVOTOMY NOS 3505 ENDOVAS REPL AORTC VALVE 3506 TRNSAPCL REP AORTC VALVE 3507 ENDOVAS REPL PULM VALVE 3508 TRNSAPCL REPL PULM VALVE 3509 ENDOVAS REPL UNS HRT VLV 3826 INSRT PRSR SNSR W/O LEAD 3977 TEMP ENDOVSC OCCLS VESSL 3978 ENDOVAS IMPLN GRFT AORTA 4382 LAP VERTICAL GASTRECTOMY 6824 UTERINE ART EMB W COILS 6825 UTERINE ART EMB W/O COIL</p> <p>Remove code: 0058 INS INTRA-ANSM PRES MNTR 0059 INTRAVASC MSMNT COR ART 0067 INTRAVAS MSMNT THORC ART 0068 INTRAVAS MSMT PERIPH ART 0069 INTRAVS MSMT VES NEC/NOS</p>

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Pediatric Quality Indicators (PDI), Log of ICD-10-CM/procedure and DRG Coding Updates and Revisions to PDI Documentation and Software

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>6. Add denominator inclusion for surgical MS-DRGs (PDI Appendix C)</p> <p>Add code:</p> <p>16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Postoperative Sepsis Rate (PDI 10)	FY Coding Change	<p>1. Add denominator exclusions for diagnosis of infection (PDI Appendix H)</p> <p>Add code: 04141 SHIGA TXN-PRODUCE E.COLI 04142 SHGA TXN PROD E.COLI NEC 04143 SHGA TXN PROD E.COLI NOS 04149 E.COLI INFECTION NEC/NOS 53901 INT D/T GASTRC BAND PROC 53981 INF D/T OT BARIATRC PROC 59681 INFECTION OF CYSTOSTOMY 99931 OTH/UNS INF-CEN VEN CATH 99932 BLOOD INF DT CEN VEN CTH 99933 LCL INF DT CEN VEN CTH 99934 AC INF FOL TRANS,INF BLD</p> <p>2. Add code for high risk immunocompromised states (PDI AppendixF)</p> <p>Add code: 996.88 COMP TP ORGAN-STEM CELL</p> <p>3. Add numerator inclusions for diagnosis of sepsis</p> <p>Add code: 99800 POSTOPERATIVE SHOCK, NOS 99802 POSTOP SHOCK, SEPTIC</p> <p>4. Add code for intermediate risk immunocompromised states (PDI Appendix G):</p> <p>Add code: 573.5 HEPATOPULMONARY SYNDROME</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>5. Remove numerator inclusion for diagnosis of sepsis</p> <p>Remove code: 998.0 POSTOPERATIVE SHOCK, NOS</p> <p>6. Add denominator inclusions operating room procedure codes (PDI Appendix A)</p> <p>Add code: 0221 INSERT/REPLACE EVD 0222 INTRACRAN VENT SHUNT/ANAS 1267 INSERT AQUEOUS DRAIN DEV 1753 PERC ATHER EXTRACRAN VSL 1754 PERC ATHER INTRACRAN VSL 1755 TRANSLUM COR ATHERECTOMY 1756 ATHER OTH NON-VOR VESSEL 3500 CLOSED VALVOTOMY NOS 3505 ENDOVAS REPL AORTC VALVE 3506 TRNSAPCL REP AORTC VALVE 3507 ENDOVAS REPL PULM VALVE 3508 TRNSAPCL REPL PULM VALVE 3509 ENDOVAS REPL UNS HRT VLV 3826 INSRT PRSR SNSR W/O LEAD 3977 TEMP ENDOVSC OCCLS VESSL 3978 ENDOVAS IMPLN GRFT AORTA 4382 LAP VERTICAL GASTRECTOMY 6824 UTERINE ART EMB W COILS 6825 UTERINE ART EMB W/O COIL</p> <p>Remove code: 0058 INS INTRA-ANSM PRES MNTR 0059 INTRAVASC MSMNT COR ART 0067 INTRAVAS MSMNT THORC ART 0068 INTRAVAS MSMT PERIPH ART 0069 INTRAVS MSMT VES NEC/NOS</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>7. Add denominator and stratification inclusion for surgical MS-DRGs (PDI Appendix C)</p> <p>Add code:</p> <p>16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC</p> <p>17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC</p> <p>570 SKIN DEBRIDEMENT W MCC</p> <p>571 SKIN DEBRIDEMENT W CC</p> <p>572 SKIN DEBRIDEMENT W/O CC/MCC</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Postoperative Wound Dehiscence Rate (PDI 11)	FY Coding Change	<p>1. Add denominator inclusion for abdominopelvic procedures</p> <p>Add code: 4382 LAP VERTICAL GASTRECTOMY</p> <p>2. Add denominator exclusion for diagnosis of high-risk immunocompromised state (PDI Appendix F)</p> <p>Add code: 28411 ANTIN CHEMOP INDCD PANCYCT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL</p> <p>3. Add denominator exclusion for diagnosis of intermediate-risk immunocompromised state (PDI Appendix G)</p> <p>Add code: 5735 HEPATOPULMONARY SYNDROME</p> <p>4. Add stratification inclusion for surgical MS-DRGs</p> <p>Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Central Venous Catheter-Related Blood Stream Infection Rate (PDI 12)	FY Coding Change	<p>1. Add numerator definition for diagnosis of central venous catheter-related blood stream infections diagnosed on or after October 1, 2011. Add code: 99931 OTH/UNS INF-CEN VEN CATH 99932 BLOOD INF DT CEN VEN CTH</p> <p>2. Add denominator inclusion for surgical MS-DRGs (PDI Appendix C) Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p> <p>3. Add denominator exclusion for diagnosis of high- risk immunocompromised state (PDI Appendix F) Add code: 28411 ANTIN CHEMOP INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL</p> <p>4. Add denominator exclusion for diagnosis of intermediate-risk immunocompromised state (PDI Appendix G) Add code: 5735 HEPATOPULMONARY SYNDROME</p>

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Transfusion Reaction Volume (PDI 13)	FY Coding Change	<p>Add denominator inclusion for surgical MS-DRGs (PDI Appendix C)</p> <p>Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>
V4.4	March 2012	Asthma Admission Rate (PDI 14)	FY Coding Change	<p>Add denominator exclusion code for cystic fibrosis and anomalies of the respiratory system</p> <p>Add code: 51661 NEUROEND CELL HYPRPL INF 51662 PULM INTERSTITL GLYCOGEN 51663 SURFACTANT MUTATION LUNG 51664 ALV CAP DYSP W VN MISALN 51669 OTH INTRST LUNG DIS CHLD</p>
V4.4	March 2012	Urinary Tract Infection Admission Rate (PDI 18)	FY Coding Change	<p>1. Add denominator exclusion for diagnosis of high- risk immunocompromised state (PDI Appendix F)</p> <p>Add code for high-risk: 28411 ANTIN CHEMOP INDCD PANCYT 28412 OTH DRG INDCD PANCYTOPNA 28419 OTHER PANCYTOPENIA 99688 COMP TP ORGAN-STEM CELL</p> <p>2. Add denominator exclusion for diagnosis of intermediate-risk immunocompromised state (PDI Appendix G)</p> <p>Add code for intermediate risk: 5735 HEPATOPULMONARY SYNDROME</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Neonatal Iatrogenic Pneumothorax Rate (NQI 1)	FY Coding Change	<p>1. Add denominator exclusion code for cardiac procedure</p> <p>Add code: 3506 TRNSAPCL REP AORTC VALVE 3508 TRNSAPCL REPL PULM VALVE</p> <p>2. Add denominator inclusion for surgical MS-DRGs (PDI Appendix C)</p> <p>Add code: 16 AUTOLOGOUS BONE MARROW TRANSPLANT W CC/MCC 17 AUTOLOGOUS BONE MARROW TRANSPLANT W/O CC/MCC 570 SKIN DEBRIDEMENT W MCC 571 SKIN DEBRIDEMENT W CC 572 SKIN DEBRIDEMENT W/O CC/MCC</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Neonatal Blood Stream Infection Rate (NQI 3)	FY Coding Change	<p>1. Add denominator exclusions for diagnosis of infection (PDI Appendix H)</p> <p>Add code: 04141 SHIGA TXN-PRODUCE E.COLI 04142 SHGA TXN PROD E.COLI NEC 04143 SHGA TXN PROD E.COLI NOS 04149 E.COLI INFECTION NEC/NOS 53901 INT D/T GASTRC BAND PROC 53981 INF D/T OT BARIATRC PROC 59681 INFECTION OF CYSTOSTOMY 99931 OTH/UNS INF-CEN VEN CATH 99932 BLOOD INF DT CEN VEN CTH 99933 LCL INF DT CEN VEN CTH 99934 AC INF FOL TRANS,INF BLD</p> <p>2. Add denominator exclusions for diagnosis of sepsis</p> <p>Add code: 99800 POSTOPERATIVE SHOCK, NOS 99802 SHOCK FOLLOW TRAUMA OR SURGERY, SEPTIC</p> <p>3. Remove denominator exclusion for diagnosis of sepsis</p> <p>Remove code: 9980 POSTOPERATIVE SHOCK</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>4. Add/remove denominator inclusion for Operating Room Procedure Codes (PDI Appendix A)</p> <p>Add code: 0221 INSERT/REPLACE EVD 0222 INTRCRAN VENT SHUNT/ANAS 1267 INSERT AQUEOUS DRAIN DEV 1753 PERC ATHER EXTRACRAN VSL 1754 PERC ATHER INTRACRAN VSL 1755 TRANSLUM COR ATHERECTOMY 1756 ATHER OTH NON-VOR VESSEL 3500 CLOSED VALVOTOMY NOS 3505 ENDOVAS REPL AORTC VALVE 3506 TRNSAPCL REP AORTC VALVE 3507 ENDOVAS REPL PULM VALVE 3508 TRNSAPCL REPL PULM VALVE 3509 ENDOVAS REPL UNS HRT VLV 3826 INSRT PRSR SNSR W/O LEAD 3977 TEMP ENDOVSC OCCLS VESSL 3978 ENDOVAS IMPLN GRFT AORTA 4382 LAP VERTICAL GASTRECTOMY 6824 UTERINE ART EMB W COILS</p> <p>Remove code: 0058 INS INTRA-ANSM PRES MNTR 0059 INTRAVASC MSMNT COR ART 0067 INTRAVAS MSMNT THORC ART 0068 INTRAVAS MSMT PERIPH ART 0069 INTRAVS MSMT VES NEC/NOS 6825 UTERINE ART EMB W/O COIL</p>
V4.4	March 2012	Software	Software/ Documentation	Revised the data step of creating permanent data set containing all records which are deleted from the analysis because key variable values having missing data

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Software	Software/ Documentation	PDI 12: Modified inclusion logic to include time dependent logic to discharges before October 1, 2011 and after October 1, 2011 for central line-associated blood stream infection diagnosis codes
V4.4	March 2012	Software	Software/ Documentation	WinQI v4.3 and v4.4 do not check for a possible issue with user-defined composite weighting – users must set weights for all possible individual indicators, including zero weights for indicators that are not to be included in the composite. This requirement has been included in the software documentation.
V4.4	March 2012	Software	Software/ Documentation	PDI 09: Modified inclusion logic to include time dependent logic to discharges before October 1, 2011 and after October 1, 2011 for acute Respiratory Failure diagnosis codes
V4.4	March 2012	Software	Software/ Documentation	Both SAS and WinQI v4.3 were improperly truncating the (Observed rate)/(Expected rate) ratio and associated upper confidence bound (95%) to be <= 1.0 in cases where a stratification of the rates was being implemented. This issue was fixed in both SAS and WinQI so that this truncation only applies in cases where no stratification is being performed.
V4.4	March 2012	Software	Software/ Documentation	SAS and WinQI v4.4 remain 32-bit applications developed on a Windows XP operating system. Some limited testing has been performed to ensure that these applications will run successfully under a 64-bit, Windows 7 environment. One additional installation requirement related to administrator rights has been included in the software documentation.
V4.4	March 2012	Software	Software/ Documentation	WinQI v4.3 was missing the PRPED5D code set and codes 7454 and 7455. This issue was fixed in v4.4 of WinQI and affects PDI 06 only.
V4.4	March 2012	Software	Software/ Documentation	The WinQI v4.3 patient-level report showed incorrect POA exclusions in some cases. This issue was fixed in v4.4 of WinQI.
V4.4	March 2012	Software	Software/ Documentation	WinQI v4.3 was not properly calculating quarterly rates when requested by the user. This issue was fixed in v4.4 of WinQI.

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Software	Software/ Documentation	SAS v4.3 did not properly handle stratifications where the user requested a two-way stratification that overlapped with a one-way stratification (e.g., Age-by-Gender at the same time as Age by itself). This issue was in fixed in v4.4 of SAS.
V4.4	March 2012	Software	Software/ Documentation	Sort routine was (PROC SORT) was introduced to PDSASP3 and PDSASA3 programs before merging all the indicators together to sorting problems in SAS whenever user selects multiple stata (e.g. stratifies by age, gender, and age by gender)
V4.4	March 2012	Software	Software/ Documentation	WinQI v4.3 did not properly implement a user selection of years later than 2009 during area report generation. Users were unable to select the year 2010 or 2011 to derive the denominator for area indicators. This issue, which affected all area-level QI, was fixed in v4.4 of WinQI.
V4.4	March 2012	Software	Software/ Documentation	The files of shrinkage factors (MSXPDP43.TXT) which were applied to the risk-adjusted were revised using re-calculated signal variance.
V4.4	March 2012	Software	Software/ Documentation	PDI 09: Modified the order of denominator exclusion/inclusions and numerator flags.
V4.4	March 2012	Software	Software/ Documentation	PDSASA2.SAS program was revised to include denominator adjustment when the population count for certain combination of strata was zero.
V4.4	March 2012	Software	Software/ Documentation	Minor SAS versus WinQI coding differences were corrected in the implementation of the technical specifications (e.g., differences in the order in which statements were evaluated) for PDI 01 and PDI 02.
V4.4	March 2012	Software	Software/ Documentation	PDI 15 (Diabetes Short-term Complications Admission Rate) can be calculated using the number of diabetics in the state as the denominator, stratified by age.

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.4	March 2012	Software	Software/ Documentation	Changes were made to the SAS and WinQI software to implement a re-estimation of the signal variance in order to correct the fact that the smoothed rates in v4.3 of the software were constant for all providers for four indicators (IQI-11, IQI-14, NQI-01 and PSI-08).
V4.3	April 2011	Iatrogenic Pneumothorax (PDI 5) Denominator (Exclusion, thoracic procedure)	Coding	Add code: 3227 BRNC THRMPLSTY, ABLT MSCL
V4.3	April 2011	Iatrogenic Pneumothorax (PDI 5) Denominator (Exclusion, cardiac procedure)	Coding	Add code: 3597 PERC MRTL VLV REPR W IMP 3737 EXC/DEST HRT LES, THRSPC
V4.3	April 2011	Postoperative Hemorrhage or Hematoma (PDI 8)	Coding	Add to risk category for diagnosis of coagulopathy 28741 POSTTRANSFUSION PURPURA
V4.3	April 2011	Transfusion Reaction (PDI 13) Numerator (Inclusion, transfusion reaction)	Coding	Add code: 99960 ABO INCOMPAT REACT NOS 99961 ABO INCOMP/HTR NEC 99962 ABO INCOMPAT/ACUTE HTR 99963 ABO INCOMPAT/DELAY HTR 99969 ABO INCOMPAT REACTN NEC 99970 RH INCOMPAT REACTION NOS 99971 RH INCOMP/HTR NEC 99972 RH INCOMPAT/ACUTE HTR 99973 RH INCOMPAT/DELAY HTR 99974 RH INCOMPAT REACTION NEC

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.3	April 2011	AHRQ Procedure Class	Coding	Add to procedure class: Class 1: 1771 NON-CORONARY IFVA Class 2: 0060 INS D-E STNT SUP FEM ART 3897 CV CATH PLCMT W GUIDANCE Class 4: 0120 IMP/REPL BRAIN PULSE GEN 0129 REM BRAIN PULSE GENERATR 3227 BRNC THRMPLSTY ABLT MSCL 3597 PERC MTRL VLV REPR W IMP 3737 EXC/DEST HRT LES THRSPC 3981 IMP CRTD SINUS STMTOTL 3982 IMP/REP CRTD SINUS LEAD 3983 IMP/RED CRTD SINUS GNRTR 3984 REV CRTD SINUS STM LEADS 3985 REV CRTD SINUS PULSE GEN 3986 REM CRTD SINUS STM TOTL 3987 REM CRTD SINUS STM LEAD 3988 REM CRTD SINUS PULSE GEN 3989 OTH CARTD BODY/SINUS OP 8188 RVRS TOTL SHLDR REPLACMT 8494 INS STRN FIX W RGD PLATE 8555 FAT GRAFT TO BREST 8687 FAT GRFT SKIN/SUBQ TISS 8690 EXT FAT FOR GRFT/BANKING

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.3	April 2011	Major Operating Room Procedure	Coding	Add codes: 0120 IMP/REPL BRAIN PULSE GEN 0129 REM BRAIN PULSE GENERATR 3227 BRNC THRMPLSTY ABLT MSCL 3597 PERC MTRL VLV REPR W IMP 3737 EXC/DEST HRT LES THRSPC 3981 IMP CRTD SINUS STMTOTL 3982 IMP/REP CRTD SINUS LEAD 3983 IMP/REP CRTD SINUS GNRTR 3984 REV CRTD SIMUS STMLEADS 3985 REV CRTD SINUS PULSE GEN 3986 REM CRTF SINUS STM TOTL 3987 REM CRTD SINUS STM LEAD 3988 REM CRTD SINUS PULSE GEN 3989 OTH CARTD BODY/SINUS OP 8188 RVRS TOTL SHLDR REPLACMT 8494 INS STRN FIX W RGD PLATE 8555 FAT GRAFT TO BREAST 8587 FAT GRFT SKIN/SUBQ TISS 8690 EXT FAT FOR GRFT/BANKING

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.3	April 2011	AHRQ Clinical Classification Software	Coding	Add codes: CCS 58: 27501 HEREDIT HEMOCHROMATOSIS 27502 HEMOCHROMATOS-RBC TRANS 27503 HEMOCHROMATOSIS NEC 27509 DISORD IRON METABLISM NEC 27803 OBESITY HYPOVENTS SYND V8541 BMI 40.0-44.9, ADULT V8542 BMI 45.0-49.9, ADULT V8543 BMI 50.0-59.9, ADULT V8544 BMI 60-69.9, ADULT V8545 BMI 70 AND OVER, ADULT CCS 62: 28749 SEC THROMBOCYTPENIA NEC CCS 83: 78033 POST TRAUMATIC SEIZURES CCS 95: 78452 FLNCY DSORD COND ELSEWHR 79951 ATTN/CONCENTRATE DEFICIT 79952 COG COMMUNICATE DEFICIT 79953 VISUOSPATIAL DEFICIT 79954 PSYCHOMOTOR DEFICIT 79955 FRONTAL LOBE DEFICIT 79959 COGNITION SIGN/SYMPT NEC CCS 133: 78630 HEMOPTYSIS NOS 78631 AC IDIO PUL HEMRG INFANT 78639 HEMOPTYSIS NEC

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				CCS 213: V1365 HX-CONG MALFORM-HEART CCS 214: V1367 HX-CONG MALFORM-DIGEST CCS 215: 75231 AGENESIS OF UTERUS 75232 HYPOPLASIA OF UTERUS 75233 UNICORNUATE UTERUS 75234 BICORNUATE UTERUS 75235 SEPTATE UTERUS 75236 ARCUATE UTERUS 75239 ANOMALIES OF UTERUS NEC 75243 CERVIAL AGENESIS 75244 CERVICAL DUPLICATION 75245 VAGINAL AGENESIS 75246 TRANSV VAGINAL SEPTUM 75247 LONGITUD VAGINAL SEPTUM V1362 HX-CONG MALFORM-CU CCS 216: V1363 HX-CONG MALFORM-NERVOUS CCS 217: V1364 HX-CONG MALFORM-EYE,FACE V1366 HX-CONG MALFORM-RESP SYS V1368 HX-CONG MALFORM-SKIN,MS CCS 654: 31535 CHLDHD ONSET FLNCY DISOR
V4.3	April 2011	Surgical MS-DRG	Coding	Add to numerator inclusion for Surgical DRG 14 ALLOGENIC BONE MARROW TRANSPLANT 15 AUTOLOGOUS BONE MARROW TRANSPLANT
V4.3	April 2011	Software (SAS and WinQI) and Documentation	Software/ Documents	PDI #2: Modified inclusion logic to remove exclusion of pressure ulcer in stage I or II to capture diagnosis of stage III or IV ulcers.

AHRQ Quality Indicators™

Pediatric Quality Indicators (PDI), Log of ICD-10-CM/procedure and DRG Coding Updates and Revisions to PDI Documentation and Software

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.3	April 2011	Software (SAS and WinQI) and Documentation	Software/ Documents	PDI #5: Added denominator exclusions for thoracic procedures (43.5, 43.99, 44.67, 77.81, 77.91)
V4.3	April 2011	Software (SAS and WinQI) and Documentation	Software/ Documents	PDI #9: Added denominator exclusion for esophageal resection procedure (MDC 4), lung cancer procedures (32.39, 32.49, 32.59), ENT/neck procedures (CCS 33), and degenerative neurological disorders (CCS 653)
V4.3	June 30, 2011	Software (SAS and WinQI) and Documentation	Software/ Documents	AHRQ Clinical Classification Software: Modified CCS 65 to CCS 654 and CCS 67 to CCS 661. Added codes: 307.0, 307.9, 315.00, 315.01, 315.02, 315.09, 315.1, 315.2, 315.31, 315.32, 315.34, 315.35, 315.39, 315.4, 315.5, 315.8, 315.9, V40.0, V40.1, 648.30, 648.31, 648.32, 648.33, 648.34, 655.50, 655.51, 655.53, 760.72, 760.73, 760.75, 779.5, 965.00, 965.01, 965.02, 965.09, V65.42. Removed codes: 305.1, 305.10, 305.11, 305.12, 305.13, V15.82
V4.3	June 30, 2011	Guide	Software/ Documents	Revised and updated all sections of the guide document to reflect current state of indicators, software and body of evidence.
V4.2	September 30, 2010	Pressure Ulcer (PDI 2)	Coding	Add diagnosis codes to stratifiers by hemiplegia, paraplegia, or quadriplegia 768.70 Hypoxic-ischemic encephalopathy, unspecified 768.72 Moderate hypoxic-ischemic encephalopathy 768.73 Severe hypoxic-ischemic encephalopathy
V4.2	September 30, 2010	Postoperative Respiratory Failure (PDI 9) Denominator (Exclusion, neuromuscular disorders)	Coding	359.71 Inclusion body myositis IBM 359.79 Other inflammatory and immune myopathies, NEC

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.2	September 30, 2010	Postoperative Sepsis (PDI 10) Denominator (Exclusion, Infection)	Coding	670.00 Major puerperal infection NOS-unsp 670.02 Major puerperal Infection NOS-del p/p 670.04 Major puerperal infection NOS-p/p 670.10 Puerperal endometritis-unsp 670.12 Puerperal endometritis del w p/p 670.14 Puerperal endometritis-postpart 670.20 Puerperal sepsis-unsp 670.22 Puerperal sepsis-del w p/p 670.24 Puerperal sepsis-postpart 670.30 Puerperal septic thrombophlebitis-unsp 670.32 Puerperal septic thrombophlebitis-del w p/p 670.34 Puerperal septic thrombophlebitis-postpart 670.80 Major puerperal infection NEC-suspec 670.82 Major puerperal infection NEC-dl w p/p 670.84 Major puerperal infection NEC-p/p
V4.2	September 30, 2010	Postoperative Wound Dehiscence (PDI 11) Denominator (Exclusion, high risk group)	Coding	279.41 Autoimmune lymphoproliferative syndrome ALPS 279.49 Autoimmune disease, not elsewhere classified

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.2	September 30, 2010	Multiple PDI Indicators	Coding	Add procedure codes: 0049 Superstat O2 Therapy 0058 Ins Intra-ansm Pres Mntr 0059 Intravasc Msmnt Cor Art 0067 Intravas Msmnt Thorc Art 0068 Intravas MsMt Periph Art 0069 Intravs Msmt Ves NEC/NOS 1751 Implant CCM, total system 1752 Implant CCM pulse gentr 1761 LITT lesn brain, guidance 1762 LITT les hd/nck, guidance 1763 LITT lesn liver, guidance 1769 LITT lesn, guide oth/NOS 1770 Intravenous Infusion of Clofarabine 3373 Endo ins/re brnc val, mul 3824 Intravas img corves OCT 3825 Intravas img non-cor OCT 3975 Endo emb hd/nk, bare coil 3976 Endo em hed/nk, bioac coil 4686 Endo insrt colonic stent 4687 Insert colonic stent NEC 3850 ABDPERNEAL RES RECTM NOS 8570 TOTL RECONSTC Breast NOS

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.2	September 30, 2010	Multiple PDI Indicators	Coding	Change procedure codes: 3760 Imp Bivn Ext Hrt Ast Sys 4840 Pull-thru Res Rectum NOS Change procedure codes category assignments: 0044 PROC-VESSEL BIFURCATION 0074 HIP REPL SURFMETAL/POLY 0075 HIP REP SURFMETAL/METAL 0076 HIP REP SURFCERMC/CERMC 0077 HIP REPL SURF- CERMC/POLY 0094 HITRA-OP NEUROPHYS MONTR 0110 INTRACRAN PRESSURE MONTR 0116 INTRACRANIAL 02 MONITOR 0117 BRAIN TEMP MONITORING 0126 INS CATHCRANIAL CAVITY 0127 REM CATHCRANIAL CAVITY 1741 OPEN ROBOTIC ASSIST PROC 1742 LAP ROBOTIC ASSIST PROC 1743 PERC ROBOTIC ASSIST PROC 1744 ENDO ROBOTIC ASSIST PROC 1745 THORACO ROBOTIC AST PROC 1749 ROBOTIC AST PROC NEC/NOS 3372 ENDO PULM ARWY FLOW MSMT 3736 EXC LEFT A TRAIL APPENDAG 3768 PERCUTAN HRT ASSIST SYST 3790 INS LEFT ATR APPEND DEV 3823 INTRAVASCLR SPECTROSCOPY 5013 TRANSJUGULAR LIVER BX 7094 INSERT BIOLOGICAL GRAFT 7095 INSERT SYNTH GRAFT/PROST 8472 APP EXT FIX DEVRING SYS 8473 APP HYBRID EXT FIX DEV 9227 RADIOACTIVE ELEM IMPLANT

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.2	September 30, 2010	Multiple PDI Indicators	Coding	<p>Add new operating procedure codes: 1751 Implant CCM, total system 1752 Implant CCM pulse gentr 1761 LITT lesn brain, guidance 1762 LITT les hd/nck, guidance 1763 LITT lesn liver, guidance 1769 LITT lesn, guide oth/NOS 3975 Endo emb hd/nk, bare coil 3976 Endo em hed/nk, bioac coil 4850 ABDPERNEAL RES RECTM NOS 8570 TOTL RECONSTC BREAST NOS</p> <p>Modify: 9227 RADIOACTIVE ELEM IMPLANT 3760 IMP BIVN EXT HRT AST SYS 4840 PULL-THRU RES RECTUM NOS 3768 PERCUTAN HRT ASSIST SYST</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.2	September 30, 2010	Multiple PDI Indicators	Coding	Remove operating procedure codes: 0044 PROC-VESSEL BIFURCATION 0074 HIP REPL SURFMETAL/POLY 0075 HIP REP SURFMETAL/METAL 0076 HIP REP SURFCERMC/CERMC 0077 HIP REPL SURF- CERMC/POLY 0126 INS CATHCRANIAL CAVITY 0127 REM CATHCRANIAL CAVITY 1741 OPEN ROBOTIC ASSIST PROC 1742 LAP ROBOTIC ASSIST PROC 1743 PERC ROBOTIC ASSIST PROC 1744 ENDO ROBOTIC ASSIST PROC 1745 THORACO ROBOTIC AST PROC 1749 ROBOTIC AST PROC NEC/NOS 3372 ENDO PULM ARWY FLOW MSMT 3736 EXC LEFT A TRAIL APPENDAG 3790 INS LEFT ATR APPEND DEV 3823 INTRAVASCLR SPECTROSCOPY 7094 INSERT BIOLOGICAL GRAFT 7095 INSERT SYNTH GRAFT/PROST 8472 APP EXT FIX DEVRING SYS 8473 APP HYBRID EXT FIX DEV
V4.2	September 30, 2010	Multiple PDI Indicators	Coding	Add ICD-9-CM codes to the corresponding CCS categories, per Table 2 in Appendix.
V4.1	December 2, 2009	SAS Software and Documentation	Software/ Documents	PQI #9 – Low Birth Weight and PSI #17 – Birth Trauma Injury to Neonates – now calculated in the PDI SAS module. Technical Specifications for these indicators are distributed with their respective (PQI and PSI) set of documents.
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	PDI #2 – Pressure Ulcer (formerly Decubitus Ulcer) – added diagnosis code to denominator exclusion for hemi- and paraplegia (334.1)

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	NQI #1 and PDI #5 – Iatrogenic Pneumothorax – 1) replaced the DRG denominator exclusion for cardiac surgery with procedure code denominator exclusion for cardiac procedures; 2) added procedure codes to denominator exclusion for thoracic procedures
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	PDI #4 – Iatrogenic Pneumothorax in Neonates has been redesignated asNQI #1. It is still calculated by the PDI SAS module.
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	PDI #9 – Postoperative respiratory failure – added denominator exclusion for craniofacial anomalies with 1) a procedure code for laryngeal or pharyngeal surgery or 2) a procedure on face and a diagnosis code of craniofacial abnormalities.
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	PDI #10 – Postoperative sepsis – removed diagnosis code from numerator inclusion for sepsis for discharges after 2004Q4 (effective October 1, 2004)
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	PDI #12 – Central Line-associated Bloodstream Infection – renamed the indicator from “Selected infections due to medical care”
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	PDI #16 – Gastroenteritis – added diagnosis code to numerator exclusion for gastrointestinal abnormalities (538 Gastrointestinal mucositis (ulcerative))
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Multiple – Infection – 1) removed diagnosis codes for non-bacterial infections from denominator exclusion for infection; 2) Add diagnosis code to denominator exclusion for infection (078.3 CAT-SCRATCHDISEASE)
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Multiple – Major Operating Room Procedures – removed selected procedure codes from the denominator inclusion for major operating room procedures
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Medical DRGs – replaced the DRG denominator inclusion for medical discharges with the MS-DRG denominator inclusion for medical discharges for discharges after 2007Q4 (effective October 1, 2007).

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Surgical DRGs – replaced the DRG denominator inclusion for surgical discharges with the MS-DRG denominator exclusion for surgical discharges for discharges after 2007Q4 (effective October 1, 2007)
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Adult DRGs – dropped the DRG denominator inclusion for adult DRGs.
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Pediatric Heart Surgery Mortality (PDI #6) – excluded cases with any diagnosis of ASD or VSD with PDA as the only procedure
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Iatrogenic Pneumothorax – Neonates (PDI #4) – renamed PDI #4 to NQI#1
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Neonatal Mortality (NQI #2) – added the Neonatal Mortality indicator
V 4.0	June 30, 2009	Software and Documentation	Software/ Documents	Blood Stream Infection – Neonates (NQI #3) – added the Blood Stream Infection – Neonates indicator
V4.0	June 30,2009	Software and Documentation	Software/ Documents	Implement UB-04 – The UB-04 (effective October 1, 2007) changes were implemented including new data elements for point-of-origin and present on admission
V4.0	June 30,2009	Software and Documentation	Software/ Documents	Update Benchmarking Data to 2007 – used data from the 2007 SID for computation of benchmarks
V4.0	February 25, 2009	Accidental Puncture or Laceration (PDI 1) Denominator (Inclusion, spinal surgeries)	Coding	Add procedure codes to denominator inclusion for spinal surgeries (\$SPINEP) Add codes: 80.53 Repair of the annulus fibrosus with graft or prosthesis 80.54 Other and unspecified repair of the anulus fibrosus

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Pressure Ulcer (PDI 2) Denominator (Exclusion, diagnosis of Stage I or Stage II)	Coding	Add denominator exclusion for diagnosis of Stage I or Stage II(\$DECUBVD) Add code: 707.20 PRESSURE ULCER, STAGE NOS 707.21 PRESSURE ULCER, STAGE I 707.22 PRESSURE ULCER, STAGE II
V4.0	February 25, 2009	Iatrogenic Pneumothorax (PDI 4 and 5) Denominator (Exclusion, diaphragmatic surgery repair)	Coding	Add procedure codes to denominator exclusion for diaphragmatic surgery repair (\$DIAPHRP) Add code: 53.71 Laparoscopic repair of diaphragmatic hernia, abdominal approach 53.72 Other and open repair of diaphragmatic hernia, abdominal approach 53.75 Repair of diaphragmatic hernia, abdominal approach, NOS 55.83 Laparoscopic repair of diaphragmatic hernia, with thoracic approach 55.84 Other and open repair of diaphragmatic hernia, with thoracic approach
V4.0	February 25, 2009	Iatrogenic Pneumothorax (PDI 4 and 5) Denominator (Exclusion, pleural effusion)	Coding	Add diagnosis codes to denominator exclusion for pleural effusion (\$PLEURAD) Add code: 511.81 Malignant pleural effusion 511.89 Other specified forms of effusion, except tuberculosis
V4.0	February 25, 2009	Iatrogenic Pneumothorax (PDI 4 and 5) Denominator (Exclusion)	Coding	Replace the DRG denominator exclusion for cardiac surgery(\$CARSDR) with a procedure code denominator exclusion for cardiac procedures (\$CARDSIP). See Table 1 in Appendix for cardiac procedure codes. Add code: 37.36 Excision or destruction of left atrial appendage(LAA) 37.55 Removal of internal biventricular heart replacement system 37.60 Implantation or insertion of biventricular external heart assist system

VERSION/REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Pediatric Heart Surgery (PDI 6 and 7) Denominator (Inclusion, procedures to repair congenital heart defect)	Coding	Add procedure code to denominator inclusion for procedures to repair congenital heart defect (\$PRPED1P) Add code: 37.36 Excision or destruction of left atrial appendage (LAA)
V4.0	February 25, 2009	Postoperative Sepsis (PDI 10) Numerator (Inclusion, sepsis)	Coding	Add diagnosis code to numerator inclusion for sepsis (\$SEPTIID) Modify code: 38.11 Methicillin susceptible staphylococcus aureus septicemia Add code: 38.12 Methicillin resistant Staphylococcus aureus septicemia
V4.0	February 25, 2009	Postoperative Wound Dehiscence (PDI 11) Denominator (Inclusion, abdominopelvic procedures)	Coding	Add procedure codes to denominator inclusion for abdominopelvic procedures (\$ABDOMIP) Add codes: 17.31 Laparoscopic multiple segmental resection of large intestine 17.32 Laparoscopic cecectomy 17.33 Laparoscopic right hemicolectomy 17.34 Laparoscopic resection of transverse colon 17.35 Laparoscopic left hemicolectomy 17.36 Laparoscopic sigmoidectomy 17.39 Other laparoscopic partial excision of large intestine 45.81 Laparoscopic total intra-abdominal colectomy 45.82 Open total intra-abdominal colectomy 45.83 Other and unspecified total intra-abdominal colectomy 48.40 Pull-through resection of rectum, not otherwise specified 48.43 Open pull-through resection of rectum 48.50 Abdominoperineal resection of the rectum, NOS 48.52 Open abdominoperineal resection of the rectum 48.59 Other abdominoperineal resection of the rectum 53.75 Repair of diaphragmatic hernia, abdominal approach, NOS

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Gastroenteritis (PDI 16) Numerator (Exclusion, gastrointestinal abnormalities)	Coding	Add diagnosis codes to numerator exclusion for gastrointestinal abnormalities (\$ACGDISD) Add codes: 53570 EOSINOPHIL GASTRT WO HEM 53571 EOSINOPHILC GASTRT W HEM 558.41 Eosinophilic gastroenteritis 558.42 Eosinophilic colitis

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Multiple – Immunocompromised Denominator (Exclusion, high risk immunocompromised)	Coding	<p>Add diagnosis codes to denominator exclusion for high risk immunocompromised (\$IMMUNHD)</p> <p>Add codes:</p> <p>199.2 Malignant neoplasm associated with transplanted organ 238.79 Other lymphatic and hematopoietic tissues 238.77 Post-transplant lymphoproliferative disorder 279.50 Graft-versus-host disease, unspecified 279.51 Acute graft-versus-host disease 279.52 Chronic graft-versus-host disease 279.53 Acute on chronic graft-versus-host disease V45.11 Renal dialysis status</p> <p>Add codes:</p> <p>203.02 MULT MYELOMA IN RELAPSE 203.12 PLSM CEL LEUK IN RELAPSE 203.82 OTH IMNPRLF NEO-RELAPSE 204.02 ACT LYMP LEUK IN RELAPSE 204.12 CHR LYMP LEUK IN RELAPSE 204.22 SBAC LYM LEUK IN RELAPSE 204.82 OTH LYM LEUK IN RELAPSE 204.92 LYMP LEUK NOS RELAPSE 205.02 ACT MYEL LEUK IN RELAPSE 205.12 CHR MYEL LEUK IN RELAPSE 205.22 SBAC MYL LEUK IN RELAPSE 205.32 MYEL SARCOMA IN RELAPSE 205.82 OTH MYEL LEUK IN RELAPSE 205.92 MYEL LEUK NOS IN RELAPSE 206.02 ACT MONO LEUK IN RELAPSE 206.12 CHR MONO LEUK IN RELAPSE 206.22 SBAC MONO LEU IN RELAPSE 206.82 OTH MONO LEUK IN RELAPSE 206.92 MONO LEUK NOS RELAPSE</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				207.02 AC ERTH/ERYLK IN RELAPSE 207.12 CHR ERYTHRMIA IN RELAPSE 207.22 MGKRYCYT LEUK IN RELAPSE 207.82 OTH SPF LEUK IN RELAPSE 208.02 AC LEUK UNS CL RELAPSE 208.12 CH LEU UNS CL IN RELAPSE 208.22 SBAC LEU UNS CL-RELAPSE 208.82 OTH LEUK UNS CL-RELAPSE 208.92 LEUKEMIA NOS IN RELAPSE

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Multiple – Infection Denominator (Exclusion, infection)	Coding	<p>Add diagnosis codes to denominator exclusion for infection(\$INFECID)</p> <p>Modify codes: 038.11 Methicillin susceptible staphylococcus aureus septicemia 041.11 Methicillin susceptible staphylococcus aureus 482.41 Methicillin susceptible pneumonia due to staphylococcus aureus</p> <p>Add codes: 038.12 Methicillin resistant Staphylococcus aureus septicemia 041.12 Methicillin resistant Staphylococcus aureus (MRSA) 482.42 Methicillin resistant pneumonia due to staphylococcus aureus 707.20 Pressure ulcer unspecified stage 707.22 Pressure ulcer stage II 707.23 Pressure ulcer stage III 707.24 Pressure ulcer stage IV 777.50 Necrotizing enterocolitis in newborn, unspecified 777.51 Stage I necrotizing enterocolitis in newborn 777.52 Stage II necrotizing enterocolitis in newborn 777.53 Stage III necrotizing enterocolitis in newborn</p> <p>Delete codes (for discharges after 2008Q4 effective October 1, 2008): 707.1 PRESSURE ULCER, SITE NOS 707.2 PRESSURE ULCER, ELBOW 707.3 PRESSURE ULCER, UPR BACK 707.4 PRESSURE ULCER, LOW BACK 707.5 PRESSURE ULCER, HIP 707.6 PRESSURE ULCER, BUTTOCK 707.7 PRESSURE ULCER, ANKLE 707.8 PRESSURE ULCER, HEEL 707.09 PRESSURE ULCER, SITE NEC</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Pressure Ulcer (PDI 2) Denominator (Exclusion, hemi- and paraplegia)	Indicator Specification Change	Add diagnosis code to denominator exclusion for hemi- and paraplegia (\$HEMIPID) Add code: 334.1 Hereditary spastic paraplegia
V4.0	February 25, 2009	Iatrogenic Pneumothorax (PDI 4 and 5) Denominator (Exclusion)	Indicator Specification Change	Replace the DRG denominator exclusion for cardiac surgery (\$CARSDR) with procedure code denominator exclusion for cardiac procedures (\$CARDSIP). See Table 1 in Appendix for cardiac procedure codes.
V4.0	February 25, 2009	Iatrogenic Pneumothorax (PDI 4 and 5) Denominator (Exclusion, thoracic procedures)	Indicator Specification Change	Add procedure codes to denominator exclusion for thoracic procedures (\$THORAIP) Add codes: 5.22 Sympathectomy Cervical 5.23 Sympathectomy Lumbar 05.29 Other sympathectomy and ganglionectomy 7.80 Thymectomy, not otherwise specified 7.81 Other partial excision of thymus 7.82 Other total excision of thymus 7.83 Thoracoscopic partial excision of thymus 7.84 Thoracoscopic total excision of thymus 32.49 Other lobectomy of lung

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Postoperative Respiratory Failure (PDI 9) Denominator (Exclusion)	Indicator Specification Change	<p>Add denominator exclusion for craniofacial anomalies with 1) a procedure code for laryngeal or pharyngeal surgery (\$CRANI1P) <i>or</i> 2) a procedure on face (\$CRANI2P) <i>and</i> a diagnosis code of craniofacial abnormalities (\$CRANIID).</p> <p>Add codes for pharyngeal surgery (\$CRANI1P):</p> <ul style="list-style-type: none"> 25.3 Complete glossectomy 25.4 Radical glossectomy 27.31 Local excision or destruction of lesion or tissue of bony palate 29.0 Pharyngotomy 29.33 Pharyngectomy (partial) 29.39 Other excision or destruction of lesion or tissue of pharynx 29.4 Plastic operation on pharynx 29.53 Closure of other fistula of pharynx 29.59 Other repair of pharynx 29.91 Dilation of pharynx 30.09 Other excision or destruction of lesion or tissue of larynx 30.21 Epiglottidectomy 30.22 Vocal cordectomy 30.29 Other partial laryngectomy 30.3 Complete laryngectomy 30.4 Radical laryngectomy 31.3 Other incision of larynx or trachea 31.5 Local excision or destruction of lesion or tissue of trachea 31.69 Other repair of larynx 31.73 Closure of other fistula of trachea 31.75 Reconstruction of trachea and construction of artificial larynx 31.79 Other repair and plastic operations on trachea 31.98 Other operations on larynx 31.99 Other operations on trachea

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
				<p>Add codes for procedure on face (\$CRANI2P):</p> <p>25.2 Partial glossectomy 25.59 Other repair and plastic operations on tongue 27.32 Wide excision or destruction of lesion or tissue of bony palate 27.62 Correction of cleft palate 27.63 Revision of cleft palate repair 27.69 Other plastic repair of palate 29.31 Cricopharyngeal myotomy 76.65 Segmental osteoplasty [osteotomy] of maxilla 76.66 Total osteoplasty [osteotomy] of maxilla 76.46 Other reconstruction of other facial bone 76.69 Other facial bone repair 76.91 Bone graft to facial bone</p> <p>Add codes for craniofacial abnormalities (\$CRANIID).</p> <p>744.83 Macrostomia 744.84 Microstomia 744.9 Unspecified anomalies of face and neck 748.3 Congenital anomalies of skull and face bones 756.0 Tracheomalacia and congenital tracheal stenosis</p>
V4.0	February 25, 2009	Postoperative Sepsis (PDI 10) Numerator (Inclusion)	Indicator Specification Change	<p>Remove diagnosis code from numerator inclusion for sepsis (\$SEPTIID) for discharges after 2004Q4 (effective October 1, 2004)</p> <p>Drop code: 785.59 Shock without mention of trauma, other</p>
V4.0	February 25, 2009	Hospital Acquired Vascular Catheter Related Infections (PDI 12)	Indicator Specification Change	<p>Rename the indicator from “Selected infections due to medical care” to “Hospital acquired vascular catheter related infections”</p>

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Gastroenteritis (PDI 16) Numerator (Exclusion, gastrointestinal abnormalities)	Indicator Specification Change	Add diagnosis code to numerator exclusion for gastrointestinal abnormalities (\$ACGDISD) Add code: 538 Gastrointestinal mucositis (ulcerative)
V4.0	February 25, 2009	Multiple – Infection Denominator (Exclusion, infection)	Indicator Specification Change	Remove diagnosis codes for non-bacterial infections from denominator exclusion for infection (\$INFECID) Drop codes: 376.00 ACUTE INFLAM NOS, ORBIT 386.30 LABYRINTHITIS NOS 386.31 SEROUS LABYRINTHITIS 386.32 CIRCUMSCRI LABYRINTHITIS 598.1 URETHR STRICT:INFECT NOS 598.2 URETH STRICT:OTH INFECT 686.01 PYODERMA GANGRENOSUM Add diagnosis code to denominator exclusion for infection (\$INFECID) Add codes: 078.3 CAT-SCRATCH DISEASE

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V4.0	February 25, 2009	Multiple – Major Operating Room Procedures Denominator (Inclusion)	Indicator Specification Change	Remove procedure codes from the denominator inclusion for major operating room procedures (\$ORPROC) Drop codes: 38.7 INTERRUPTION VENA CAVA 41.0 LYMPH STRUCTURE OP NEC 41.1 BONE MARROW TRNSPLNT NOS 41.2 AUTO BONE MT W/O PURG 41.3 ALO BONE MARROW TRNSPLNT 41.4 ALLOGRFT BONE MARROW NOS 41.5 AUTO HEM STEM CT W/O PUR 41.6 ALLO HEM STEM CT W/O PUR 41.7 CORD BLD STEM CELL TRANS 41.8 AUTO HEM STEM CT W PURG 41.9 ALLO HEM STEM CT W PURG 41.10 AUTO BONE MT W PURGING
V4.0	February 25, 2009	Iatrogenic Pneumothorax – Neonates (PDI 4)	Indicator Specification Change	Rename PDI 4 to NQI 1
V4.0	February 25, 2009	Neonatal Mortality (NQI 2)	Indicator Specification Change	Add the Neonatal Mortality indicator
V4.0	February 25, 2009	Blood Stream Infection – Neonates (NQI 3)	Indicator Specification Change	Add the Blood Stream Infection – Neonates indicator

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V 3.2	March 10, 2008	Iatrogenic Pneumothorax (PDI #5) Denominator (Exclusion, Thoracic Surgery)	Coding	Added new codes: 32.20 THORAC EXC LUNG LESION 32.30 THORAC SEG LUNG RESECT 32.39 OTH SEG LUNG RESECT NOS 32.41 THORAC LOBECTOMY LUNG 32.50 THORACOSPC PNEUMONECTOMY 32.59 OTHER PNEUMONECTOMY NOS 33.20 THORACOSCOPC LUNG BIOPSY 34.20 THORACOSCOPIE PLEURAL BX 34.52 THORACOSCOPC DECORT LUNG
V 3.2	March 10, 2008	Selected Infections due to Medical Care (PDI #12) Numerator (Inclusion)	Coding	Added new code 999.31 INFECT D/T CENT VEN CATH
V 3.2	March 10, 2008	Multiple PDI Indicators Exclusion (Infection)	Coding	Add new codes 040.41 INFANT BOTULISM and 040.42 WOUND BOTULISM
V 3.2	March 10, 2008	Multiple PDI Indicators	Coding	Updated DRG to Version 25.0
V 3.2	March 10, 2008	Software and Documentation	Software/ Documents	PDI #1 (Accidental puncture or laceration) – Added an exclusion for discharges with an ICD-9-CM procedure code for spine surgery PDI #13 (Transfusion Reaction) – Revised the indicator from a rate to a count PDI #3 (Foreign Body left in During Procedure) – Revised the indicator from a rate to a count and to require the POA flag
V 3.1a	March 16, 2007	SAS Software and Documentation	Software/ Documents	Added program to calculate the pediatric patient safety composite measure. The new files are PDI_COMPOSITE.SAS and MSXPDC31.TXT.

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V 3.1a	March 16, 2007	Software (PDSASA2)	Software/ Documents	Amended the aggregation algorithm to correctly sum the numerator and denominator counts across stratifiers.
V 3.1	March 12, 2007	Software (SAS and Windows) and Technical Specifications	Software/ Documents	Revised numerator inclusion criteria for Postoperative Hemorrhage and Hematoma (PDI #8) to include a diagnosis of hemorrhage or hematoma and a procedure for control of hemorrhage or drainage of hematoma.
V 3.1	March 12, 2007	Covariates. Software (SAS and Windows),	Software/ Documents	Based on recommendations of the Risk Adjustment and Hierarchical Modeling (RAHM) Workgroup, computed covariates using logistic regression model with a hospital random-effect instead of the existing simple logistic model. Because the AHRQ QI use a large sample, the impact on the covariates of using the hierarchical model (and hence the impact on the risk-adjusted rates) is minor. Updated the coefficients used in the calculation of expected and risk-adjusted rates to the reference population, based on the 2002-2004 State Inpatient Data (SID).
V 3.1	March 12, 2007	Covariates, Software (SAS and Windows), Software Documentation	Software/ Documents	Included an option to incorporate the present on admission indicator into the specifications. In general, cases where the outcome of interest is present on admission will be excluded from the denominator, as these cases are no longer at risk of having the outcome of interest occur during the hospitalization. The release also includes alternative parameter files of risk-adjustment covariates and population rates using 2002-2004 SID data from California and New York.
V 3.1	March 12, 2007	Software (SAS and Windows)	Software/ Documents	Age-, race-, gender- and county-specific population estimates used for AHRQ QI area rates were updated to use revised post-censal estimates for years 2001 through 2005 and projections for the years 2006 and 2007. Added capability to apply weight value to each discharge. The syntax will compute risk-adjusted rates and observed-to-expected ratios for the pre-defined set of stratification variables (e.g., age, gender, payer, race). When stratifications other than hospital or area are selected, the RPPDxx variables and their confidence intervals are observed/expected ratios to avoid confounding with risk adjustment variables.

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V 3.0b	September 29, 2006	Windows	Software/ Documents	Implemented the pediatric risk adjustment.
V 3.0b	September 29, 2006	SAS Software	Software/ Documents	Changed the PAGECAT stratification data element to correctly assign non-integer AGE values. Changed PHS_RACHS1.TXT syntax to correctly assign the risk category when AGE > 0 and AGEDAY is missing. In general, these cases are now assigned to a lower risk category (impacts about 3% of cases).
V 3.0b	September 29, 2006	Technical Specifications and Software	Software/ Documents	PedQI #1, #3, #6, #10-12. Changed the exclusion from newborns less than 500g to neonates less than 500g.
V 3.0b	September 29, 2006	Measures	Software/ Documents	Revised the text to clarify clinical panel recommendations of indicators for inclusion in Pediatric module and those deferred for further development. Added description of Pediatric Heart Surgery Volume.
V 3.0a	May 1, 2006	SAS	Software/ Documents	Implemented the pediatric risk adjustment.
V 3.0a	May 1, 2006	SAS Software	Software/ Documents	PDSAS1.SAS – Corrected the principal diagnosis exclusion for PedQI#8. PDSASA2.SAS – Corrected the denominator calculation for PedQI#17
V 3.0a	May 1, 2006	Technical Specifications	Software/ Documents	PedQI #2 – Added exclusion for cases with an ICD-9-CM procedure code of debridement or pedicle graft as the only major operating room procedures (surgical cases only) PedQI #4/#5 – Added exclusion for cases with ICD-9-CM procedure code of diaphragmatic surgery repair PedQIs #16 and #18– Modified exclusion to cases with age less than or equal to 90 days (or neonates if age in days is missing) Deleted ICD-9-CM procedure code 41.0 from the list of major operating room procedure codes Intermediate Risk Immuno-compromised state – Clarified that codes for hepatic failure must be accompanied by codes for cirrhosis.

VERSION/ REVISION NUMBER	DATE	COMPONENT	NATURE OF CHANGE	CHANGES
V 3.0a	May 1, 2006	Technical Specifications and Software	Software/ Documents	<p>Corrected ICD-9-CM diagnosis codes 590.00 and 590.01 in the numerator exclusion for PedQI #18.</p> <p>Dropped ICD-9-CM diagnosis codes 585.1, 585.2, 585.3, 585.4 and 585.9 from the high risk immunocompromised state specification.</p> <p>Added ICD-9-CM diagnosis codes 276.50, 276.51 and 276.52 to the numerator specification for PedQI #16.</p> <p>Refined the definition of neonate by dropping the DRG and MDC inclusion criteria.</p> <p>Refined the newborn definition by requiring that age in days be equal to zero (or missing if there is a liveborn diagnosis code).</p>
V 3.0	February 20, 2006	Technical Specifications and Software	Software/ Documents	<p>Dropped ICD-9-CM diagnosis code 5185 from numerator specification for PedQI #9.</p> <p>Dropped exclusion of all newborns and neonates transferring from another institution, added exclusion of neonates for PedQI #10.</p>

Appendices

Appendix A - Cardiac Procedure Codes as of February 2009

3510	OPEN VALVULOPLASTY NOS	3613	AORTOCOR BYPAS-3 COR ART
3511	OPN AORTIC VALVULOPLASTY	3614	AORTCOR BYPAS-4+ COR ART
3512	OPN MITRAL VALVULOPLASTY	3615	1 INT MAM-COR ART BYPASS
3513	OPN PULMON VALVULOPLASTY	3616	2 INT MAM-COR ART BYPASS
3514	OPN TRICUS VALVULOPLASTY	3617	ABD-CORON ARTERY BYPASS
3520	OPN/OTH REP HRT VLV NOS	3619	HRT REVAS BYPS ANAS NEC
3521	OPN/OTH REP AORT VLV-TIS	362	ARTERIAL IMPLANT REVASC
3522	OPN/OTH REP AORTIC VALVE	3631	OPEN CHEST TRANS REVASC
3523	OPN/OTH REP MTRL VLV-TIS	3632	OTH TRANSMYO REVASCULAR
3524	OPN/OTH REP MITRAL VALVE	3639	OTH HEART REVASCULAR
3525	OPN/OTH REP PULM VLV-TIS	3691	CORON VESS ANEURYSM REP
3526	OPN/OTH REPL PUL VALVE	3699	HEART VESSEL OP NEC
3527	OPN/OTH REP TCSPD VLV-TS	370	PERICARDIOCENTESIS
3528	OPN/OTH REPL TCSPD VALVE	3710	INCISION OF HEART NOS
3531	PAPILLARY MUSCLE OPS	3711	CARDIOTOMY
3532	CHORDAE TENDINEAE OPS	3712	PERICARDIOTOMY
3533	ANNULOPLASTY	3731	PERICARDIECTOMY
3534	INFUNDIBULECTOMY	3732	HEART ANEURYSM EXCISION
3535	TRABECUL CARNEAE CORD OP	3733	EXC/DEST HRT LESION OPEN
3539	TISS ADJ TO VALV OPS NEC	3735	PARTIAL VENTRICULECTOMY
3550	PROSTH REP HRT SEPTA NOS	3741	IMPL CARDIAC SUPPORT DEV
3551	PROS REP ATRIAL DEF-OPN	3749	HEART/PERICARD REPR NEC
3553	PROS REP VENTRIC DEF-OPN	3751	HEART TRANSPLANTATION
3554	PROS REP ENDOCAR CUSHION	3752	IMP TOT INT BI HT RP SYS
3560	GRFT REPAIR HRT SEPT NOS	3753	REPL/REP THR UNT TOT HRT
3561	GRAFT REPAIR ATRIAL DEF	3754	REPL/REP OTH TOT HRT SYS
3562	GRAFT REPAIR VENTRIC DEF	3761	PULSATION BALLOON IMPLAN
3563	GRFT REP ENDOCAR CUSHION	3762	INSRT NON-IMPL CIRC DEV
3570	HEART SEPTA REPAIR NOS	3763	REPAIR HEART ASSIST SYS
3571	ATRIA SEPTA DEF REP NEC	3764	REMV EXT HRT ASSIST SYS
3572	VENTR SEPTA DEF REP NEC	3765	IMP VENT EXT HRT AST SYS
3573	ENDOCAR CUSHION REP NEC	3766	IMPLANTABLE HRT ASSIST
3581	TOT REPAIR TETRAL FALLOT	3767	IMP CARDIOMYOSTIMUL SYS
3582	TOTAL REPAIR OF TAPVC	3791	OPN CHEST CARDIAC MASSAG
3583	TOT REP TRUNCUS ARTERIOS	3804	INCISION OF AORTA
3584	TOT COR TRANSPOS GRT VES	3805	THORACIC VESSEL INC NEC
3591	INTERAT VEN RETRN TRANSP	3844	RESECT ABDM AORTA W REPL
3592	CONDUIT RT VENT-PUL ART	3845	RESECT THORAC VES W REPL
3593	CONDUIT LEFT VENTR-AORTA	3864	EXCISION OF AORTA
3594	CONDUIT ARTIUM-PULM ART	3865	THORACIC VESSEL EXCISION
3595	HEART REPAIR REVISION	3884	OCCLUDE AORTA NEC
3598	OTHER HEART SEPTA OPS	3885	OCCLUDE THORACIC VES NEC
3599	OTHER HEART VALVE OPS	390	SYSTEMIC-PULM ART SHUNT
3603	OPEN CORONRY ANGIOPLASTY	3921	CAVAL-PULMON ART ANASTOM
3610	AORTOCORONARY BYPASS NOS	3922	AORTA-SUBCLV-CAROT BYPAS
3611	AORTOCOR BYPAS-1 COR ART	3923	INTRATHORACIC SHUNT NEC
3612	AORTOCOR BYPAS-2 COR ART		

Appendix B - ICD-9-CM codes for corresponding CCS categories as of September 2010

0700	HEPATITIS A WITH COMA	20048	MANTLE CELL LYMPH MULTIP
0701	HEPATITIS A W/O COMA	20050	PRIMARY CNS LYMPH XTRNDL
0702	HEPATITIS B WITH COMA*	20051	PRIMARY CNS LYMPH HEAD
07020	HPT B ACTE COMA WO DLTA	20052	PRIMARY CNS LYMPH THORAX
07021	HPT B ACTE COMA W DLTA	20053	PRIMARY CNS LYMPH ABDOM
07022	HPT B CHRNC COMA WO DLTA	20054	PRIMARY CNS LYMPH AXILLA
07023	HPT B CHRNC COMA W DLTA	20055	PRIMARY CNS LYM INGUIN
0703	HEPATITIS B W/O COMA*	20056	PRIMARY CNS LYMPH PELVIC
07030	HPT B ACTE WO CM WO DLTA	20057	PRIMARY CNS LYMPH SPLEEN
07031	HPT B ACTE WO CM W DLTA	20058	PRIMARY CNS LYMPH MULTIP
07032	HPT B CHRNC WO CM WO DLTA	20060	ANAPLASTIC LYMPH XTRNDL
07033	HPT B CHRNC WO CM W DLTA	20061	ANAPLASTIC LYMPH HEAD
0704	VIRAL HEPAT NEC W COMA*	20061	ANAPLASTIC LYMPH HEAD
07041	HPT C ACUTE W HEPAT COMA	20062	ANAPLASTIC LYMPH THORAX
07042	HPT DLT WO B W HPT COMA	20062	ANAPLASTIC LYMPH THORAX
07043	HPT E W HEPAT COMA	20063	ANAPLASTIC LYMPH ABDOM
07044	CHRNC HPT C W HEPAT COMA	20063	ANAPLASTIC LYMPH ABDOM
07049	OTH VRL HEPAT W HPT COMA	20064	ANAPLASTIC LYMPH AXILLA
0705	VIRAL HEPAT NEC W/O COMA*	20064	ANAPLASTIC LYMPH AXILLA
07051	HPT C ACUTE WO HPAT COMA	20065	ANAPLASTIC LYMPH INGUIN
07052	HPT DLT WO B WO HPT COMA	20065	ANAPLASTIC LYMPH INGUIN
07053	HPT E WO HEPAT COMA	20066	ANAPLASTIC LYMPH PELVIC
07054	CHRNC HPT C WO HPAT COMA	20066	ANAPLASTIC LYMPH PELVIC
07059	OTH VRL HPAT WO HPT COMA	20067	ANAPLASTIC LYMPH SPLEEN
0706	VIRAL HEPAT NOS W COMA	20067	ANAPLASTIC LYMPH SPLEEN
07070	HPT C W/O HEPAT COMA NOS	20068	ANAPLASTIC LYMPH MULTIP
07071	HPT C W HEPATIC COMA NOS	20068	ANAPLASTIC LYMPH MULTIP
0709	VIRAL HEPAT NOS W/O COMA	20070	LARGE CELL LYMPH XTRNDL
20030	MARGNL ZONE LYM XTRNDL	20070	LARGE CELL LYMPH XTRNDL
20030	MARGNL ZONE LYM XTRNDL	20071	LARGE CELL LYMPHOMA HEAD
20031	MARGIN ZONE LYM HEAD	20071	LARGE CELL LYMPHOMA HEAD
20031	MARGIN ZONE LYM HEAD	20072	LARGE CELL LYMPH THORAX
20032	MARGIN ZONE LYM THORAX	20072	LARGE CELL LYMPH THORAX
20032	MARGIN ZONE LYM THORAX	20073	LARGE CELL LYMPH ABDOM
20033	MARGIN ZONE LYM ABDOM	20073	LARGE CELL LYMPH ABDOM
20033	MARGIN ZONE LYM ABDOM	20074	LARGE CELL LYMPH AXILLA
20034	MARGIN ZONE LYM AXILLA	20074	LARGE CELL LYMPH AXILLA
20034	MARGIN ZONE LYM AXILLA	20075	LARGE CELL LYMPH INGUIN
20035	MARGIN ZONE LYM INGUIN	20075	LARGE CELL LYMPH INGUIN
20035	MARGIN ZONE LYM INGUIN	20076	LARGE CELL LYMPH PELVIC
20036	MARGIN ZONE LYM PELVIC	20077	LARGE CELL LYMPH SPLEEN
20037	MARGIN ZONE LYMPH SPLEEN	20078	LARGE CELL LYMPH MULTIP
20038	MARGIN ZONE LYMPH MULTIP	20270	PERIPH T CELL LYM XTRNDL
20040	MANTLE CELL LYM XTRNDL	20271	PERIPH T CELL LYMPH HEAD
20041	MANTLE CELL LYMPH HEAD	20272	PERIPH T CELL LYM THORAX
20042	MANTLE CELL LYMPH THORAX	20273	PERIPH T CELL LYM ABDOM
20043	MANTLE CELL LYMPH ABDOM	20274	PERIPH T CELL LYM AXILLA
20044	MANTLE CELL LYMPH AXILLA	20275	PERIPH T CELL LYM INGUIN
20045	MANTLE CELL LYMPH INGUIN	20276	PERIPH T CELL LYM PELVIC
20046	MANTLE CELL LYMPH PELVIC	20277	PERIPH T CELL LYM SPLEEN
20047	MANTLE CELL LYMPH SPLEEN	20278	PERIPH T CELL LYM MULTIP

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20312	PLSM CEL LEUK IN RELAPSE	32730	CIRCADIAN RHYM SLEEP NOS
20402	ACT LYMP LEUK IN RELAPSE	32731	CIRCADIAN RHY-DELAY SLP
20412	CHR LYMP LEUK IN RELAPSE	32732	CIRCADIAN RHY-ADVC SLEEP
20422	SBAC LYM LEUK IN RELAPSE	32733	CIRCADIAN RHYM-IRREG SLP
20482	OTH LYM LEUK IN RELAPSE	32734	CIRCADIAN RHYM-FREE RUN
20482	OTH LYM LEUK IN RELAPSE	32735	CIRCADIAN RHYTHM-JETLAG
20492	LYMP LEUK NOS RELAPSE	32736	CIRCADIAN RHY-SHIFT WORK
20502	ACT MYEL LEUK IN RELAPSE	32737	CIRCADIAN RHYM OTH DIS
20512	CHR MYEL LEUK IN RELAPSE	32739	CIRCADIAN RHYM SLEEP NEC
20522	SBAC MYL LEUK IN RELAPSE	32753	SLEEP RELATED BRUXISM
20532	MYEL SARCOMA IN RELAPSE	3315	NORML PRESSURE HYDROCEPH
20582	OTH MYEL LEUK IN RELAPSE	33183	MILD COGNITIVE IMPAIREMT
20592	MYEL LEUK NOS IN RELAPSE	33700	IDIO PERPH AUTO NEUR NOS
20602	ACT MONO LEUK IN RELAPSE	33701	CAROTID SINUS SYNDROME
20612	CHR MONO LEUK IN RELAPSE	33709	IDIO PERPH AUTO NEUR NEC
20622	SBAC MONO LEU IN RELAPSE	34881	TEMPORAL SCLEROSIS
20682	OTH MONO LEUK IN RELAPSE	34889	BRAIN CONDITIONS NEC
20692	MONO LEUK NOS RELAPSE	34939	DURAL TEAR NEC
20702	AC ERTH/ERYLK IN RELAPSE	35921	MYOTONIC MUSCLR DYSTRPHY
20712	CHR ERYTHRMIA IN RELAPSE	35922	MYOTONIA CONGENITA
20722	MGKRYCYT LEUK IN RELAPSE	35923	MYOTONIC CHONDRODYSTRPHY
20782	OTH SPF LEUK IN RELAPSE	35924	DRUG INDUCED MYOTONIA
20802	AC LEUK UNS CL RELAPSE	35929	MYOTONIC DISORDER NEC
20812	CH LEU UNS CL IN RELAPSE	35971	INCLUSION BODY MYOSITIS
20822	SBAC LEU UNS CL-RELAPSE	35979	INFLM/IMMUNE MYOPATH NEC
20882	OTH LEUK UNS CL-RELAPSE	4041	BEN HYPERT HRT/RENAL DIS*
20892	LEUKEMIA NOS IN RELAPSE	41512	SEPTIC PULMONARY EMBOLSM
20922	MALIG CARCINOID THYMUS	4162	CHR PULMONARY EMBOLISM
20924	MALIG CARCINOID KIDNEY	42682	LONG QT SYNDROME
20924	MALIG CARCINOID KIDNEY	51181	MALIGNANT PLEURAL EFFUSN
20925	MAL CARCNOID FOREGUT NOS	53013	EOSINOPHILIC ESOPHAGITIS
20926	MAL CARCINOID MIDGUT NOS	57142	AUTOIMMUNE HEPATITIS
20927	MAL CARCNOID HINDGUT NOS	72990	SOFT TISSUE DISORD NOS
20971	SEC NEUROEND TU DIST LYM	72991	POST-TRAUMATIC SEROMA
20972	SEC NEUROEND TUMOR-LIVER	72992	NONTRAUMA HEMA SOFT TISS
20973	SEC NEUROENDO TUMOR-BONE	72999	SOFT TISSUE DISORDER NEC
20974	SEC NEUROENDO TU-PERITON	75672	OMPHALOCELE
25541	GLUCOCORTICOID DEFICIENT	75673	GASTROSCHISIS
25542	MINERALCORTICOID DEFCNT	76061	AMNIOCENTESIS AFFECT NB
25801	MULT ENDO NEOPLAS TYPE I	76062	IN UTERO PROC NEC AFF NB
25950	ANDROGEN INSENSITVTY NOS	76063	MAT SURG DUR PREG AFF NB
25951	ANDROGEN INSENSITVTY SYN	76064	PREV MATERN SURG AFF NB
25952	PART ANDROGEN INSNSITVTY	77750	NEC ENTEROCOLITIS NB NOS
2755	HUNGRY BONE SYNDROME	77751	STG I NEC ENTEROCOL NB
27941	AUTOIMMUN LYMPHPROF SYND	77752	STG II NEC ENTEROCOL NB
27949	AUTOIMMUNE DISEASE NEC	77753	STG III NEC ENTEROCOL NB
2865	INTR CIRCUL ANTICOAG DIS#	77931	NB FEEDING PROBLEMS
2866	DEFIBRATION SYNDROME	77932	NB BILIOUS VOMITING
2867	ACQ COAGUL FACTOR DEFIC	77933	NB OTHER VOMITING
2874	SECOND THROMBOCYTOPENIA#	77934	NB FAILURE TO THRIVE
28866	BANDEMIA	78072	FUNCTIONAL QUADRIPLÉGIA
28982	SEC HYPERCOAGULABLE ST	782	SKIN/OTH INTEGUMENT SYMP*
28984	HEPARIN-INDU THROMBOCYTO	78451	DYSARTHRIA
32702	INSOMNIA DT MENTAL DISOR	78459	SPEECH DISTURBANCE NEC
32715	HYPERSOM DT MENTAL DISOR	78951	MALIGNANT ASCITES

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78959	ASCITES NEC	V1053	HX MALIG RENAL PELVIS
7897	COLIC	V1053	HX MALIG RENAL PELVIS
79510	ABN GLAND PAP SMR VAGINA	V1090	HX MALIG NEOPLASM NOS
79511	PAP SMEAR VAG W ASC-US	V1091	HX MALIG NEUROENDO TUMOR
79512	PAP SMEAR VAGINA W ASC-H	V1359	HX MUSCULOSKLETL DIS NEC
79513	PAP SMEAR VAGINA W LGSIL	V4511	RENAL DIALYSIS STATUS
79514	PAP SMEAR VAGINA W HGSIL	V4512	NONCMLNT W RENAL DIALYS

Appendix C – Miscellaneous Hemorrhage or Hematoma-related Procedure Codes as of December 2012

0121	CRANIAL SINUS I & D	2109	EPISTAXIS CONTROL NEC
0124	OTHER CRANIOTOMY	211	INCISION OF NOSE
0131	INCISE CEREBRAL MENINGES	2121	RHINOSCOPY
0139	OTHER BRAIN INCISION	2219	NASAL SINUS DX PROC NEC
0213	MENINGE VESSEL LIGATION	2239	EXT MAXILLARY ANTROT NEC
0239	VENT SHUNT EXTRACRAN NEC	2241	FRONTAL SINUSOTOMY
0241	IRRIGATE/EXPL VENT SHUNT	2251	ETHMOIDOTOMY
0309	SPINAL CANAL EXPLOR NEC	2252	SPHENOIDOTOMY
0401	EXCISION ACOUSTIC NEUROMA	260	INCIS SALIVARY GLND/DUCT
0404	PERIPH NERVE INCIS NEC	270	DRAIN FACE & MOUTH FLOOR
0443	CARPAL TUNNEL RELEASE	280	PERITONSILLAR I & D
0444	TARSAL TUNNEL RELEASE	2911	PHARYNGOSCOPY
0602	REOPEN THYROID FIELD WND	313	INCIS LARYNX TRACHEA NEC
0609	INCIS THYROID FIELD NEC	3141	TRACHEOSCOPY THRU STOMA
0692	THYROID VESSEL LIGATION	3142	LARYGNOSCOPY/TRACHEOSCOPY
0700	ADRENAL EXPLORATION NOS	330	INCISION OF BRONCHUS
0701	UNILAT ADRENAL EXPLORAT	331	INCISION OF LUNG
0702	BILAT ADRENAL EXPLORAT	3322	FIBER-OPTIC BRONCHOSCOPY
0741	ADRENAL INCISION	3323	OTHER BRONCHOSCOPY
0743	ADRENAL VESSEL LIGATION	3324	CLOSED BRONCHIAL BIOPSY
0751	PINEAL FIELD EXPLORATION	3402	EXPLORATORY THORACOTOMY
0752	PINEAL GLAND INCISION	3403	REOPEN THORACOTOMY SITE
0771	PITUITARY FOSSA EXPLORAT	3409	OTHER PLEURAL INCISION
0772	PITUITARY GLAND INCISION	341	INCISION OF MEDIASTINUM
0791	THYMUS FIELD EXPLORATION	3421	TRANSPLEURA THORACOSCOPY
0792	OTHER INCISION OF THYMUS	3422	MEDIASTINOSCOPY
0795	THORAC INCISION THYMUS	3582	TOTAL REPAIR OF TAPVC
0809	OTHER EYELID INCISION	3639	OTH HEART REVASCULAR
090	LACRIMAL GLAND INCISION	3699	HEART VESSEL OP NEC
0953	LACRIMAL SAC INCISION	370	PERICARDIOCENTESIS
1244	EXCISE CILIARY BODY LES	3711	CARDIOTOMY
1289	SCLERAL OPERATION NEC	3799	OTHER HEART/PERICARD OPS
149	OTHER POST SEGMENT OPS	3800	INCISION OF VESSEL NOS
1609	ORBITOTOMY NEC	3801	INTRACRAN VESSEL INCIS
1802	EXT AUDITORY CANAL INCIS	3802	HEAD/NECK VES INCIS NEC
1809	EXTERNAL EAR INCIS NEC	3803	UPPER LIMB VESSEL INCIS
1811	OTOSCOPY	3804	INCISION OF AORTA
2001	MYRINGOTOMY W INTUBATION	3805	THORACIC VESSEL INC NEC
2009	MYRINGOTOMY NEC	3806	ABDOMEN ARTERY INCISION
2021	MASTOID INCISION	3807	ABDOMINAL VEIN INCISION
2022	PETRUS PYRAM AIR CEL INC	3808	LOWER LIMB ARTERY INCIS
2023	MIDDLE EAR INCISION	3809	LOWER LIMB VEIN INCISION
2079	INC/EXC/DESTR IN EAR NEC	3850	VARICOSE V LIG-STRIP NOS
2100	CONTROL OF EPISTAXIS NOS	3851	INTCRAN VAR V LIG-STRIP
2101	ANT NASAL PACK FOR EPIST	3852	HEAD/NECK VAR V LIG-STR
2102	POST NASAL PAC FOR EPIST	3853	ARM VARICOSE V LIG-STRIP
2103	CAUTERY TO STOP EPISTAX	3855	THORAC VAR V LIG-STRIP
2104	ETHMOID ART LIGAT-EPIST	3857	ABD VARICOS V LIGA-STRIP
2105	MAX ART LIG FOR EPISTAX	3859	LEG VARICOS V LIGA-STRIP
2106	EXT CAROT ART LIG-EPIST	387	INTERRUPTION VENA CAVA
2107	NASAL SEPT GRFT-EPISTAX	3930	SUTURE OF VESSEL NOS

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3931	SUTURE OF ARTERY	5184	ENDOSC DILATION AMPULLA
3932	SUTURE OF VEIN	5188	ENDOSC REMOVE BILE STONE
3952	ANEURYSM REPAIR NEC	5196	PERC EXTRAC COM DUC CALC
3953	ARTERIOVEN FISTULA REP	5198	OTH PERC PROC BIL TRCT
3972	ENDOVASC EMBOL HD/NK VES	5209	PANCREATOTOMY NEC
3979	OTH ENDO PROC OTH VESSEL	5213	ENDOSC RETRO PANCREATOG
398	CARTD BODY/SINUS/VASC OP#	5411	EXPLORATORY LAPAROTOMY
400	INCIS LYMPHATIC STRUCTUR	5419	LAPAROTOMY NEC
412	SPLENOTOMY	5421	LAPAROSCOPY
4209	ESOPHAGEAL INCISION NEC	5495	PERITONEAL INCISION
4221	ESOPHAGOSCOPY BY INCIS	5501	NEPHROTOMY
4222	ESOPHAGOSCOPY THRU STOMA	5511	PYELOTOMY
4223	ESOPHAGOSCOPY NEC	5521	NEPHROSCOPY
4233	ENDOSC DESTRUC ESOPH LES	5522	PYELOSCOPY
4239	DESTRUCT ESOPHAG LES NEC	562	URETEROTOMY
4291	LIGATION ESOPH VARIX	5631	URETEROSCOPY
430	GASTROTOMY	5719	CYSTOTOMY NEC
4341	ENDOSC DESTR STOMACH LES	5731	CYSTOSCOPY THRU STOMA
4411	TRANSABDOMIN GASTROSCOPY	5732	CYSTOSCOPY NEC
4412	GASTROSCOPY THRU STOMA	580	URETHROTOMY
4413	GASTROSCOPY NEC	5822	URETHROSCOPY NEC
4440	SUTURE PEPTIC ULCER NOS	5909	PERIREN/URETER INCIS NEC
4441	SUT GASTRIC ULCER SITE	600	INCISION OF PROSTATE
4442	SUTURE DUODEN ULCER SITE	6081	PERIPROSTATIC INCISION
4443	ENDOSC CONTROL GAST HEM	620	INCISION OF TESTES
4444	TRANSCATH EMBO GAST HEM	631	EXC SPERMATIC VARICOCELE
4449	OTHER CONTROL GAST HEM	636	VASOTOMY
4491	LIGATE GASTRIC VARICES	6372	SPERMATIC CORD LIGATION
4500	INTESTINAL INCISION NOS	6392	EPIDIDYMYOTOMY
4501	DUODENAL INCISION	6393	SPERMATIC CORD INCISION
4502	SMALL BOWEL INCISION NEC	6492	INCISION OF PENIS
4503	LARGE BOWEL INCISION	6501	LAPAROSCOPIC OOPHOROTOMY
4511	TRANSAB SM BOWEL ENDOSC	6509	OTHER OOPHOROTOMY
4512	ENDOSC SM BOWEL THRU ST	6601	SALPINGOTOMY
4513	SM BOWEL ENDOSCOPY NEC	680	HYSTEROTOMY
4516	EGD WITH CLOSED BIOPSY	6811	DIGITAL EXAM OF UTERUS
4521	TRANSAB LG BOWEL ENDOSC	6812	HYSTEROSCOPY
4522	ENDOSC LG BOWEL THRU ST	6995	INCISION OF CERVIX
4523	COLONOSCOPY	700	CULDOCENTESIS
4524	FLEXIBLE SIGMOIDOSCOPY	7012	CULDOTOMY
4543	ENDOSC DESTRU LG INT LES	7021	VAGINOSCOPY
4549	DESTRUC LG BOWEL LES NEC	7022	CULDOSCOPY
480	PROCTOTOMY	757	MANUAL EXPLOR UTERUS P/P
4822	PROCTOSIGMOIDOSC THRU ST	7710	OTHER BONE INCISION NOS
4823	RIGID PROCTOSIGMOIDOSCPY	8010	OTHER ARTHROTOMY NOS
4921	ANOSCOPY	8201	EXPLOR TEND SHEATH-HAND
4945	HEMORRHOID LIGATION	8202	MYOTOMY OF HAND
500	HEPATOTOMY	8203	BURSOTOMY OF HAND
5110	ENDOSC RETRO CHOLANGIOPA	8204	I & D PALMAR/THENAR SPAC
5111	ENDOSC RETRO CHOLANGIO	8209	INC SOFT TISSUE HAND NEC
5141	CDE FOR CALCULUS REMOV	8301	TENDON SHEATH EXPLORAT
5142	CDE FOR OBSTRUCTION NEC	8302	MYOTOMY
5149	INCIS OBSTR BILE DUC NEC	8303	BURSOTOMY
5151	COMMON DUCT EXPLORATION	8309	SOFT TISSUE INCISION NEC
5159	BILE DUCT INCISION NEC	850	MASTOTOMY

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8603	INCISION PILONIDAL SINUS	9925	INJECT CA CHEMOTHER NEC
8609	SKIN & SUBQ INCISION NEC	9929	INJECT/INFUSE NEC
9621	DILAT FRONTALNASAL DUCT		